

Safety Report

February 2024



Safety@Grant



Our Commitment to Safety

*We believe that a safe workplace and community is founded upon an environment where **all voices can and will speak up, ask questions, and be heard without reprisal.***

We will provide and maintain the proper training, tools, job layout, equipment and employees to perform work safely.

Injuries Reported

Date	Body Part	Description & Response
1/2	Shoulder	<p style="text-align: center;">Hurt Shoulder</p> <p>While reaching down into the P1 pipe shoot, employee felt sharp pain and a pop in the left shoulder. Employee couldn't move it for a few minutes but then was able to move it. General reminder about capturing awkward work situations or positions during the pre-job brief and discuss alternate means of performing tasks.</p>
1/3	Hurt Knee	<p style="text-align: center;">Hurt Knee</p> <p>While transferring material from workshop to storage Connex, employee tripped on a raised part of the floor and fell, hitting knees. General reminder to keep eyes on path. Safety followed up with employee who sought medical care and was placed on restricted duty. Safety will also be investigating the Connex to identify any potential tripping hazards.</p>
1/5	Left Side	<p style="text-align: center;">Slip and Fall</p> <p>Employee slipped and fell in the EHQ parking lot hitting their left hip and wrist. Upon getting up and examining the ground, there was an icy spot where the employee had stepped. Employee is a little sore but no major injuries. Facilities, working with Safety have devised a mitigation strategy to address the icy conditions and provide awareness of changing conditions. The Personal Protection Committee will be communicating locations around the District for traction shoes, which will be available for all personnel.</p>

Injuries Reported

Date	Body Part	Description & Response
1/8	Left Elbow & Arm	<p style="text-align: center;">Arm Injury</p> <p>While a team was putting in bulkhead gates and pulling the handrail out to move to a new slot, an employee felt something in their arm pop. Employee had instant pain run through their elbow and arm. A general reminder to communicate with individuals during team lifts. A good example of timely reporting an injury no matter the significance.</p>
1/15	Back	<p style="text-align: center;">Slip and Fall</p> <p>While performing daily duties, employee slipped and fell on snow covered ice. Employee lost footing and landed flat on their back. Use caution during extreme weather conditions. Safety Dept has been notified and will investigate the issue.</p>
1/16	Back	<p style="text-align: center;">Slip and Fall</p> <p>Employee slipped and fell while working at Soap Lake Fiber Hut, landing on their back and right side, knocking the wind out of them. Employee seemed to be ok until this morning as they are really sore and could not get to work. Employee will go in to see the doctor this morning. Traction shoes are available at the warehouse. Safety recommends their use in icy conditions.</p>

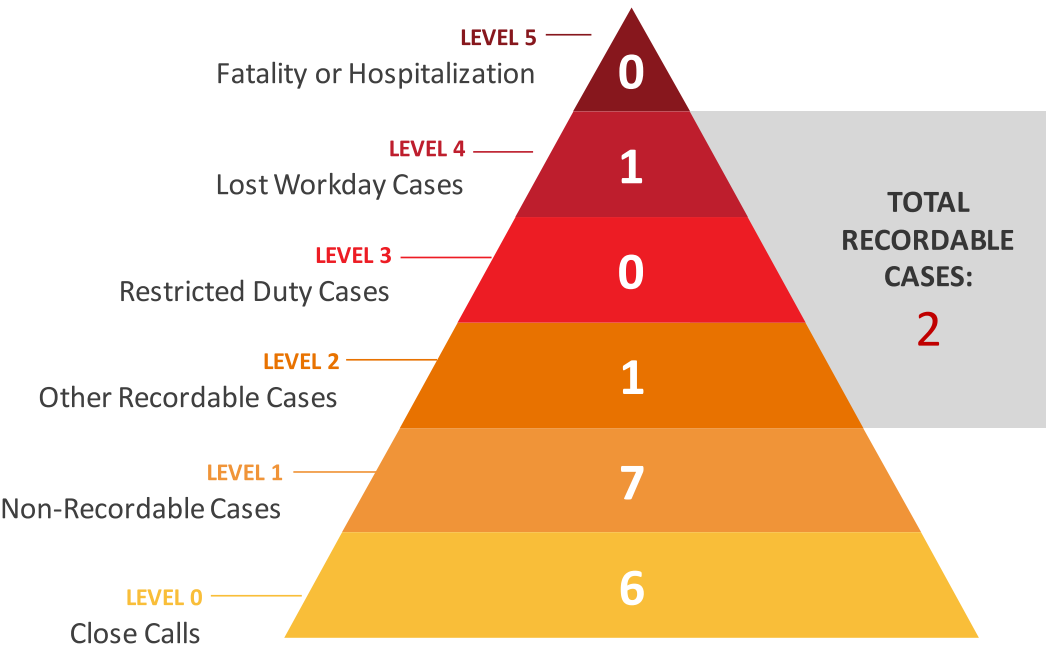
Injuries Reported

Date	Body Part	Description & Response
1/22	Finger	<p style="text-align: center;">Hurt Finger</p> <p>Employee felt possible strain on ring finger when lifting 2-inch square tubing from rack to floor in fab shop. This issue has been addressed and a resolution has been identified to prevent this in the future. Make sure you understand your own limitations and if the material is too heavy, use alternate methods of lifting. Also ensure you have proper hand placement to prevent injuries.</p>



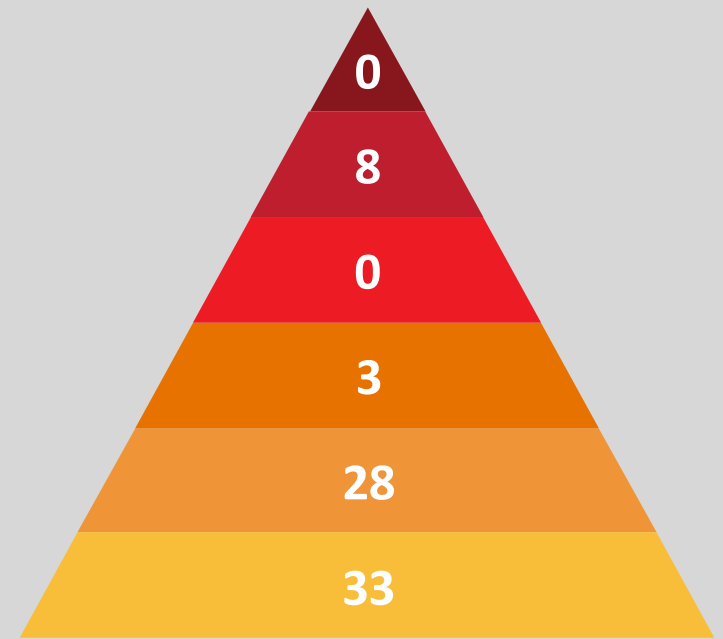
	Last Month	Year-to-Date
Total Injuries Reported	7	7
Other Recordable Case(s)	1	1
Restricted Duty Case(s)	0	0
Lost Workday Case(s)	1	1

2024 Incidents Summary



vs

2023



Close Calls

Date	Overview	Location	Description & Response
1/9	Near Miss	Division & C ST	<p>Employee activated crosswalk lights and looked both way before entering the crosswalk. A school bus at the stop sign turned onto C street and as employee began crossing the street, the bus continued to move toward them at a rapid pace. Employee realized the driver didn't see them and began to run to avoid being hit. The bus driver slammed on the brakes and came to a complete stop. Employee was also wearing a bright pink neon vest. Employees are encouraged to attempt to make eye contact with drivers before entering the crosswalk. Also, a reminder that engaging the warning lights could provide a false sense of security. This is an ongoing issue with no reasonable solutions. Employees must remain vigilant when crossing any street.</p>
1/9	Trash Can Fire	ESC Transportation Shop	<p>While using the hand grinder, sparks fell into the trash can and started a paper towel on fire. Employee grabbed fire extinguisher and put out the fire. A reminder to be aware of your surroundings when you are performing hot work such as grinding or welding. Transportation and Safety are working to identify a solution to prevent this in the future. A great response by employee in recognizing the hazard, knowing where the fire extinguisher is located and quickly removing the hazard.</p>

Close Calls

Date	Overview	Location	Description & Response
1/15	Downed Avian Wire	WAN Tailrace	<p>Received a report of a downed avian wire at WAN. The decision was made to close the boat launches. Upon investigation, it was determined that the wire was actually a carrier chain from a previously downed wire that had already been removed. Also noticed two wire hanging low due to ice buildup related to the recent low temps and recent spill. The two wires were verified to be connected to both the spillway and right bank anchor pole, but elevation was undetermined. The decision was made to keep the boat launches closed until temps rise enough to thaw the ice or it's deemed safe to put a boat on the water to verify their heights. Good catch by an employee. Boat operators are reminded to be extremely vigilant when operating a boat downstream of WAN and PRD.</p>
1/15	Slip and Fall	WAN	<p>While performing daily duties, employee slipped on snow covered ice, lost footing and landed flat on their back. Use caution during extreme weather conditions. If submitting a CR related to a fall, please ensure that you fill out the injury form no matter the severity of the injury. This ensures Safety is notified and can investigate and follow up.</p>

Close Calls

Date	Overview	Location	Description & Response
1/16	Fell Out of Chair	MLLO	<p>Employee was reaching under desk and sat on the forward lip of the office chair seat pan. As they continued to reach and scoot the chair, it was enough to lift the back wheels off the floor slightly and move their center of gravity, resulting in the chair slipping out from underneath. Employee sat down on the floor and the chair fell over behind them. No injury except perhaps their pride. Situational awareness combined with understanding the limitations of the equipment in use, not exceeding design or operating parameters of equipment will safeguard against repeat events.</p>
1/22	Slip & Fall	ESC Fiber Shop	<p>Employee was walking into the fiber shop on the sidewalk, rounded the corner in front of the A/C unit, slipped and fell on ice that had formed due to the air from the A/C unit blowing cold air on the sidewalk. When employee fell against the A/C unit, it was knocked off the stand. They were able to push it back on the stand and reported it to their foreman, and then was reported to the facilities foreman. No injuries at this time, just sore from the strain, twisting and falling. Reminder to be vigilant with foot and use situational awareness on wet surfaces. A/C checked for proper operation and ice melt was added to the area.</p>

Vehicle Incidents

Date	Location	Description & Response
1/8	Hwy 28 and Nat WA Way	<p style="text-align: center;">Vehicle Accident</p> <p>PUD truck was heading south on HWY 28 getting ready to turn left onto Nat WA Way when it was rear ended by a car. Roads were slick due to snow. Damage to the back of the spray boom that is used to deice parking lots. PUD driver and passenger were fine as well as the occupants of the other vehicle. EPD was called but did not respond as the incident happened on a state route. WSP was called and advised to self report as it could be hours before they could respond. Information was exchanged between parties. Be sure to increase following distance when conditions are inclement. Vehicle insurance cards are located in the glovebox. This vehicle has been repaired and is back in service.</p>
1/11	ESC Royal Slope	<p style="text-align: center;">Vehicle Accident</p> <p>Employee stopped on Dodson Rd on top of Royal Slope because the road was blocked by down vehicles. Vehicle behind employee struck the driver side rear corner. Police were called and a report was filed. Based on dashcam video, good job by District personnel remaining vigilant and understanding changing weather conditions.</p>

Vehicle Incidents

Date	Location	Description & Response
1/12	Saddle Mtn Tower	<p style="text-align: center;">Loss of Traction</p> <p>Employee responded to a callout to Saddle Mountain radio tower. While driving up to the tower, vehicle lost traction and started to slide. Employee attempted to perform a controlled slide back down the grade and almost got stuck. When another coworker called to check-in, they were advised of the situation and offered to bring the side by side. Employee notified Foreman of the issue and proceeded to drive back to a clearing to meet with coworker. When coworker arrived we noticed right rear tire was flat. There were a lot of sharp, pointy objects on the grade. Called to have it repaired and we proceeded to Saddle Mountain tower. Employee appreciated the support as they had never been to this location before. In these types of weather conditions, employee will request a second person to assist and take the side by side. Reminder that severe weather conditions should be discussed at the ABC meetings and alternative transportation options should be identified at that time.</p>
1/18	RCLO Hwy 26	<p style="text-align: center;">Wheel Studs</p> <p>While driving the service bucket truck and slowing down to make a turn, the left rear set of dual fell off the truck. All the wheel studs had sheared off. Walk around had been completed prior to leaving with the vehicle, nothing visible as they broke off internally. Please ensure that a 360 walk around is performed prior to moving the vehicle. Vehicle is out of service until repairs are completed.</p>

Vehicle Incidents

Date	Location	Description & Response
1/18	ESC HWY 17	<p style="text-align: center;">Potential Loose Object</p> <p>Employee was driving on HWY 17 toward Ephrata, was flagged down by a motorist and told something had flown out of the back of the work truck and had damaged their windshield. Nothing was missing out of the back of the truck. Snow in the back of the truck wasn't disturbed. Employee had performed 360 walk around before leaving Moses Lake. A supervisor was notified along with Safety and the auto garage. The State Patrol was called and exchanged insurance information for us. A general reminder to ensure any loose items are secured before moving vehicle.</p>
1/18	ESC	<p style="text-align: center;">Forklift/Wall Contact</p> <p>While reversing forklift up ramp to park it, employee's boot slipped off brake pedal causing forklift to make contact with the wall. No damage was done to forklift or wall. Foreman was notified. Before operating forklift, make sure the bottom of boots are clear of snow and ice. Whenever a PUD vehicle is involved in an event whether it appears to be damaged or not, please mark the CR as a mobile incident.</p>
1/22	ESC Pole Yard	<p style="text-align: center;">Damaged Truck Mirror</p> <p>While loading a pole on the line truck, employee's hand slipped off pole causing it to swing and damage the mirror on the line truck. Ensure tag lines are being used to control loads that will travel outside of reach.</p>

Vehicle Incidents

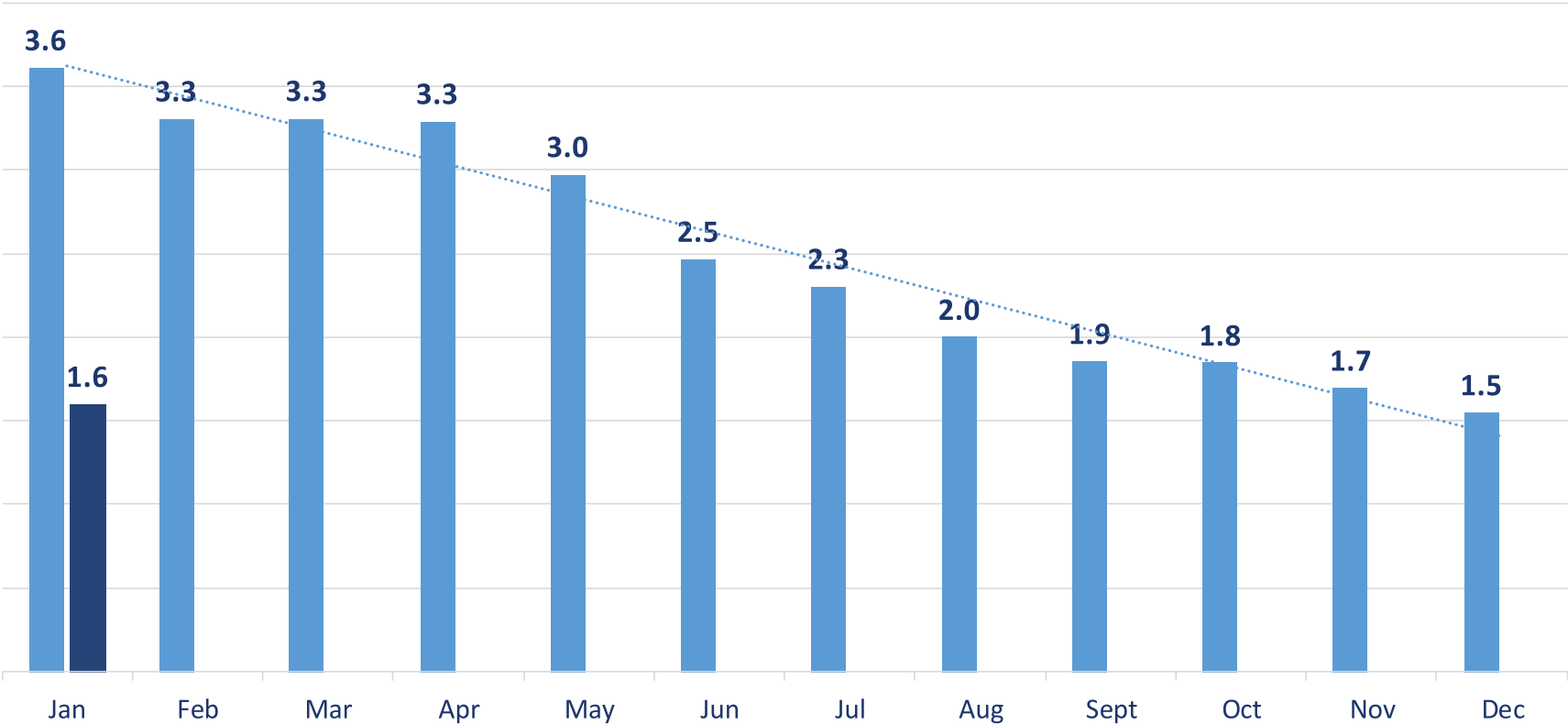
Date	Location	Description & Response
1/29	MLLO Parking Lot	<p style="text-align: center;">Backing Incident</p> <p>Employee was backing into a parking spot and it was foggy. While backing, the ladder made impact with the building causing a slight scuff. No damage was seen upon inspection. Immediately reported to foreman. Ensure you are utilizing a spotter whenever possible. Also perform 360 walk around to identify vehicle overhangs outside of the normal vehicle. A good example of reporting a vehicle incident, no matter significance.</p>

Contractor Injuries & Incidents

Date	Overview	Description & Response
1/11	Lifting Device Failure	<p>A contractor was in the process of removing a generator rotor pole in the erection bay of PRD when the lifting device failed. It failed while applying the load and before the pole was lifted up so there was no risk to the crew in the vicinity of failing. Upon review with the operator and riggers, the fixture was impeded by a heavy fan blade on the rotor which point loaded the fixture incorrectly causing three bolts in a side plate to break. Contractor had previously performed a load test on the fixture the week before and a dynamometer was used to measure the load to prevent overloading of the fixture. Work was stopped to inspect the other identical lifting fixture and further evaluate the incident. The contractor is reviewing additional measures including modifications to the fixture to prevent interference as well as training for the riggers. Rigging equipment may not have been properly maintained. Over torquing of the fasteners on the rigging fixture is considered to be the cause of the failure. An extent of condition determined that this is the only rigging equipment in use for this project under the care of the equipment owner. A safety stand down was performed before any other rigging activities were performed. Equipment will be restored to a safe condition before further use. Safety will work with the DR to ensure a JHA is performed.</p>

Leading & Lagging Indicators

12 Month Rolling – Recordable Injury Rate – 2023 vs 2024



Recordable Injury Projection



Total number of recordable incidents × 200,000
Total number of hours worked by all employees

At the current injury rate, we
will likely record

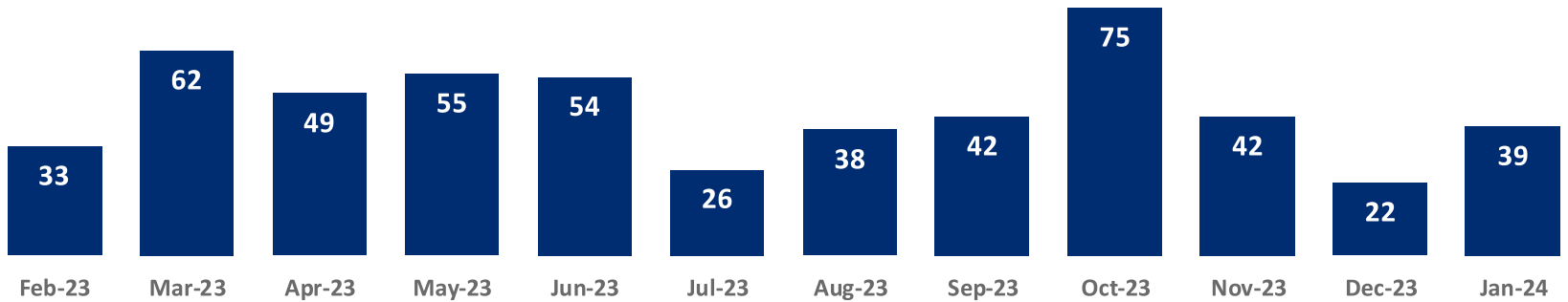
12

injuries on our OSHA Logs by
the end of 2024.

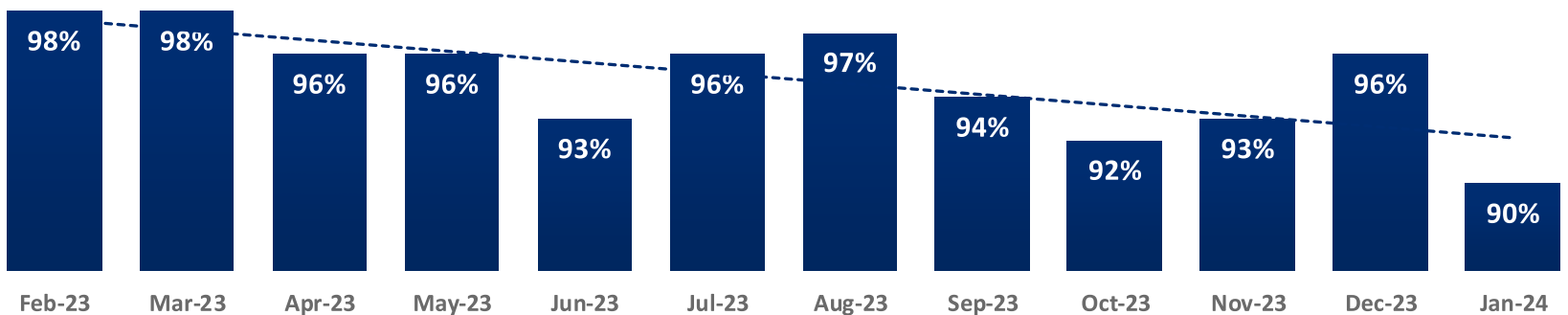
← The “recordable injury rate” is a calculation that describes the number of employees per 100 full-time workers or per 200,000 hours worked that have been involved in an injury or illness that requires medical treatment beyond first-aid.

Leading & Lagging Indicators

Jobsite Reviews Conducted



Safety Meeting Attendance



Open Safety Action Items

Over 60 Days Old

As of December 2023	As of January 2024
Year 2018 = 2	Year 2018 = 2
Year 2019 = 1	Year 2019 = 1
Year 2020 = 3	Year 2020 = 3
Year 2021 = 5	Year 2021 = 5
Year 2022 = 3	Year 2022 = 3
Year 2023 = 5	Year 2023 = 5
Year 2024 = 0	Year 2024 = 0
Month Total = 20	Month Total = 20

**None recorded
For January
2024!**

What's an Action Item?

These are safety concerns that can be brought up anytime, including during a safety meeting.

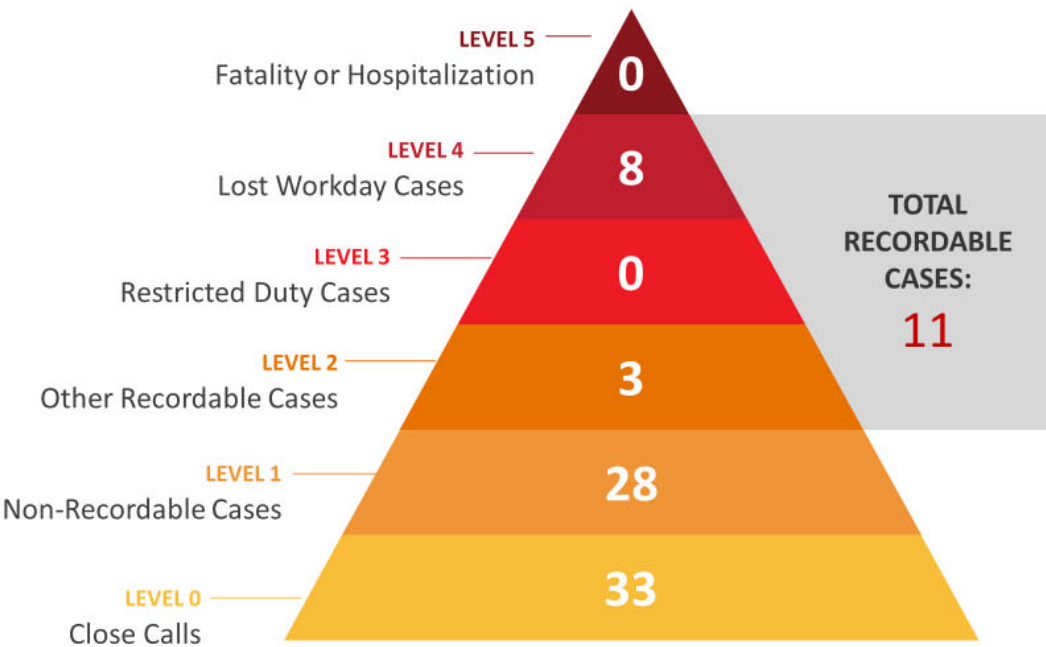


They usually require some sort of further investigation or resolution, so they are assigned and tracked to make sure they're followed up on.

Safety Meeting Talking Points February 2024

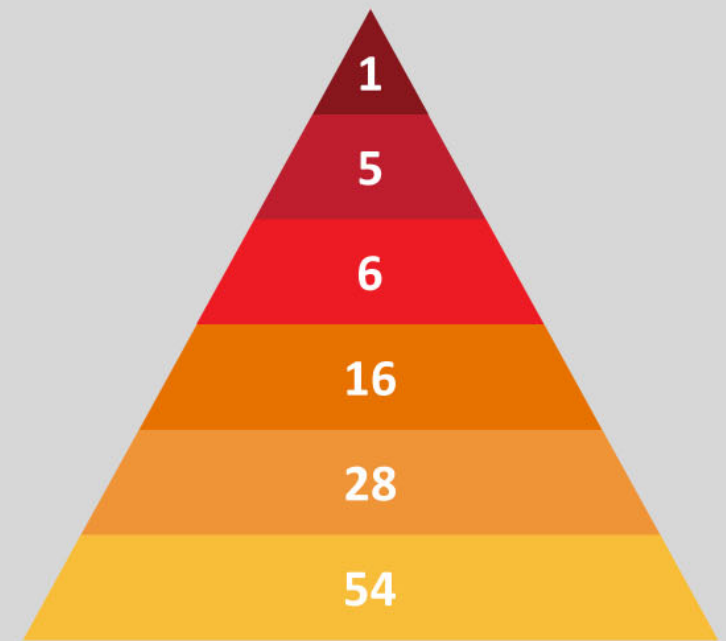
Reporting Workplace Injuries

2023 Incidents Summary

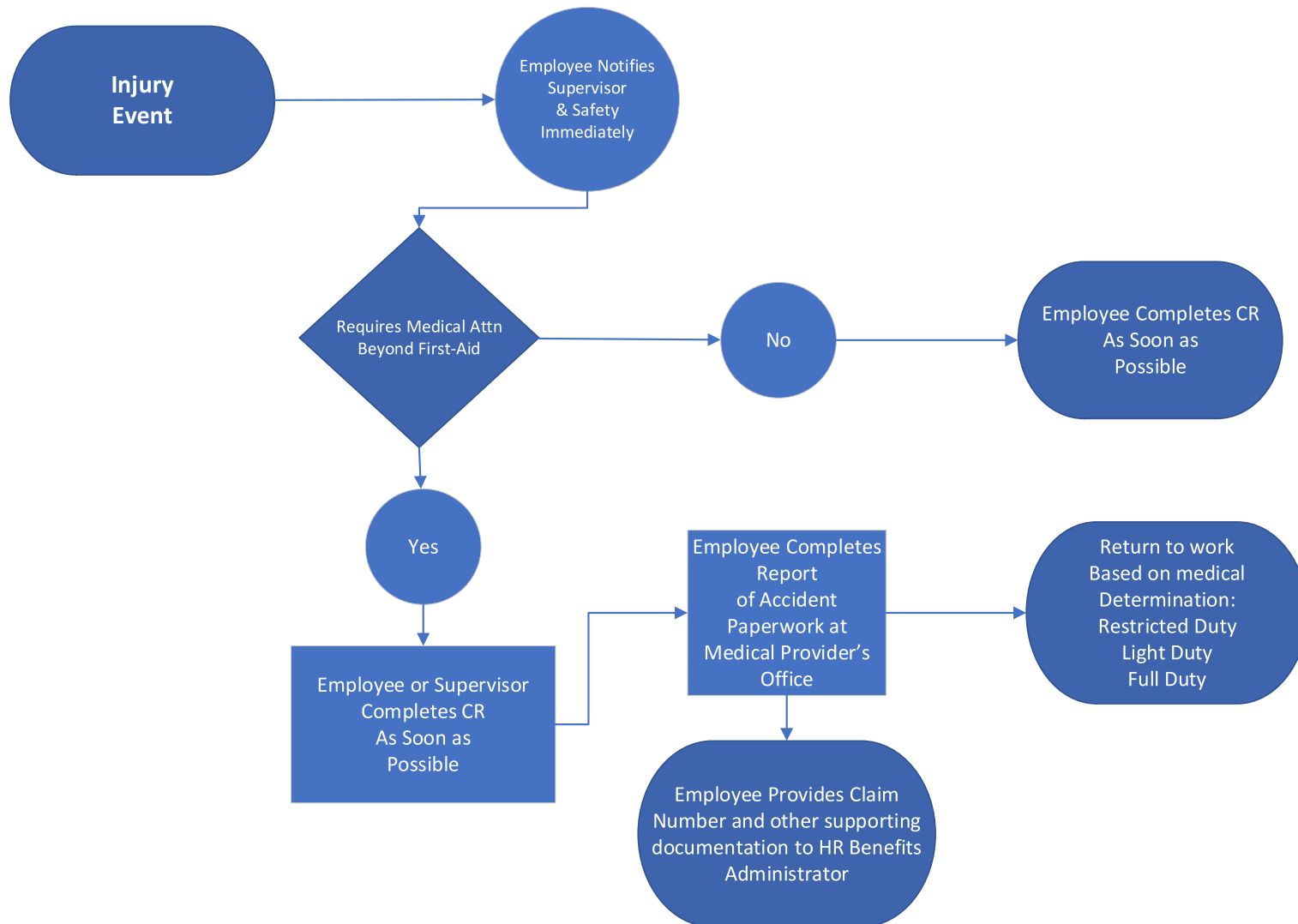


VS

2022



Injury Reporting Process



Thank You!



Safety@Grant

Personal Internet Safety

February 27, 2024



Powering our way of life.

Cady's Minion

Relatively Easy Ways To Minimize Risk Online

1) Home Network Basics

2) Managing Your Online Identity

3) Protecting Online Financial Transactions

Home Network Basics

- Change the default name of your wireless network (SSID)
- Use a strong and unique password for your WiFi
- Enable WiFi Protected Access (best you can use of the WPA options)
- Turn off the WiFi broadcasting (you won't show on the list of networks)

Home Network Basics

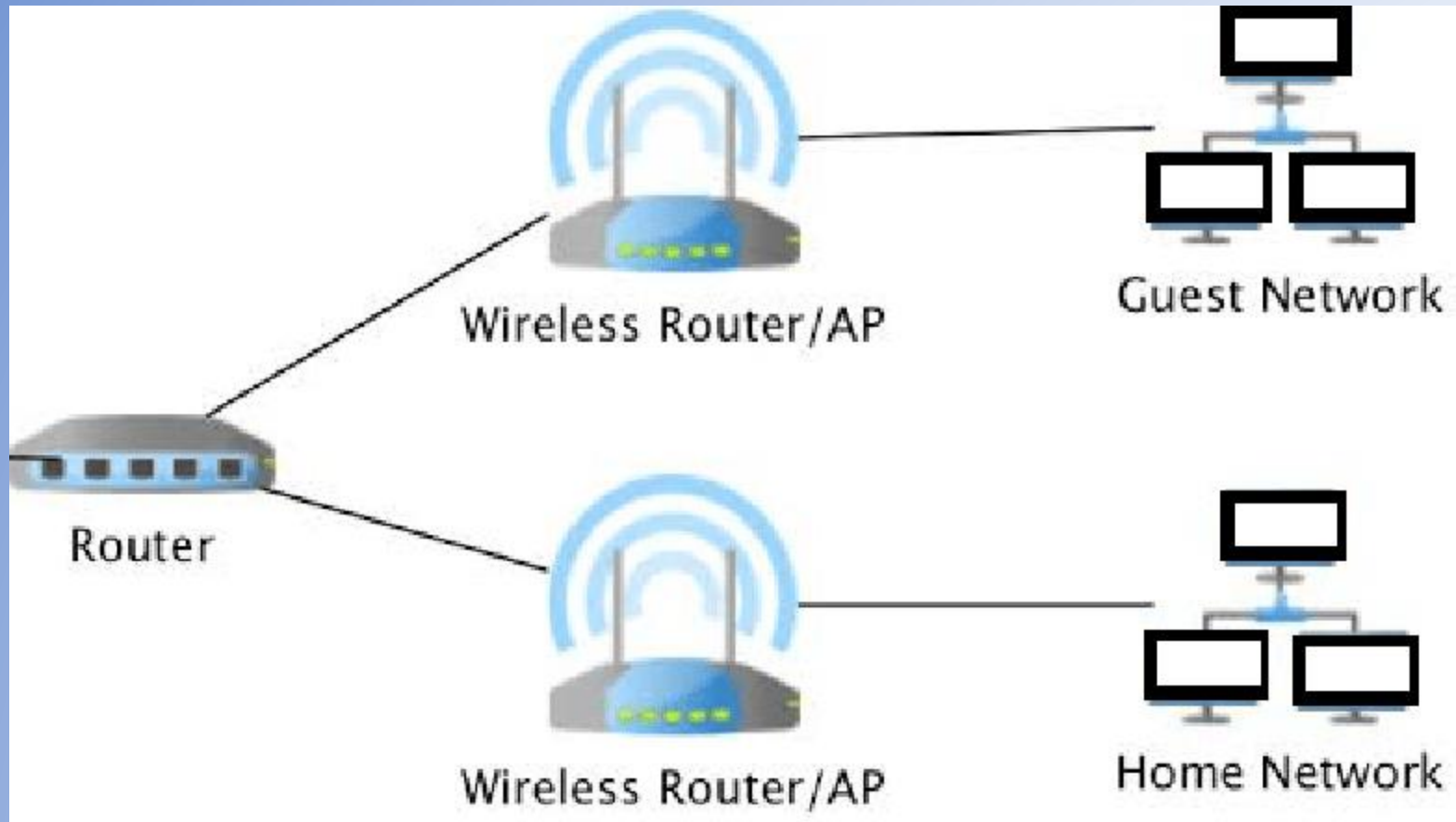
- Make sure automatic updates is enabled (everything)
- Disable remote administration access on your firewall
- Do not map your workstation to the public (usually gamers)
- Do not cache credentials you care about in your browser
- Be aware of the risks of consumer IoT devices
- Segment your network (next slides)

Home Network Basics (WiFi)



Network Diagram-Typical Simple Home Network

Home Network Basics (WiFi)



Relatively Easy Ways To Minimize Risk Online

1) Home Network Basics

2) Managing Your Online Identity

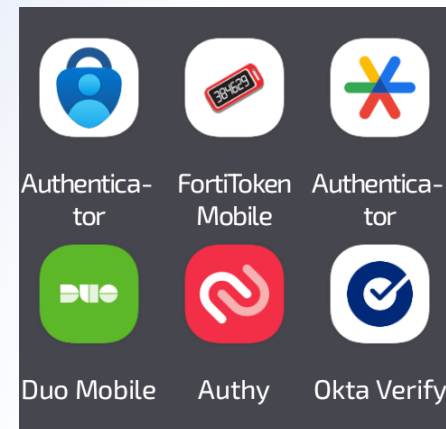
3) Protecting Online Financial Transactions

Managing Online Identity

- Maintain At Least Two Email Accounts
 - Main account that you genuinely care about
 - Junk/spam account for all the garbage instances you get asked to enter an email address
- Unique Passwords For Everything
 - Seriously, I know it sounds unmanageable, but it isn't that hard
 - Use a password manager (like Bitwarden, 1Password, Dashlane, Keeper, etc)
 - I currently have 124 unique passwords in my password manager

Managing Online Identity

- Enable MultiFactor (MFA) Whenever Available
 - Especially anything important to you
- Probably already required by your bank
- MFA isn't always a token. Can also be biometric (fingerprint)



Have You Been Pwned?

- Spoiler Alert! (Yes, you almost certainly have been)
- Visit <https://www.haveibeenpwned.com>
- Enter any of your email addresses
- You will probably see several results
- When making this slide, there were 12,868,997,436 compromised accounts documented on this site
- That is almost 40x the total population of the United States
- This is why you should avoid re-using credentials

Relatively Easy Ways To Minimize Risk Online

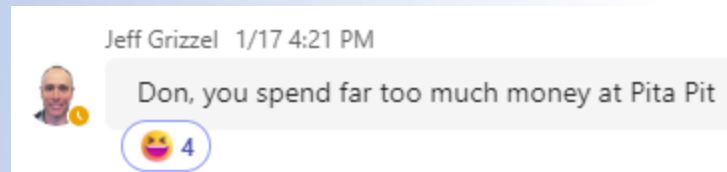
- 1) Home Network Basics
- 2) Managing Your Online Identity
- 3) Protecting Online Financial Transactions**

Protecting Online Financial Transactions

- Just like re-using passwords, re-using credit cards is also fraught with risks
- If a vendor you use is compromised, the credit card you use with them is also compromised
- You now have a huge mess because your card is canceled and so is everywhere you use it

Protecting Online Financial Transactions

- Use a unique virtual credit card for every vendor that is storing your information
- Use the main card at stores as usual
- If a virtual card is compromised, only that card needs to be canceled.
- Examples are Apple Card, Capital One, Citi, X1, Amex, and others



Virtual Cards

Active Canceled

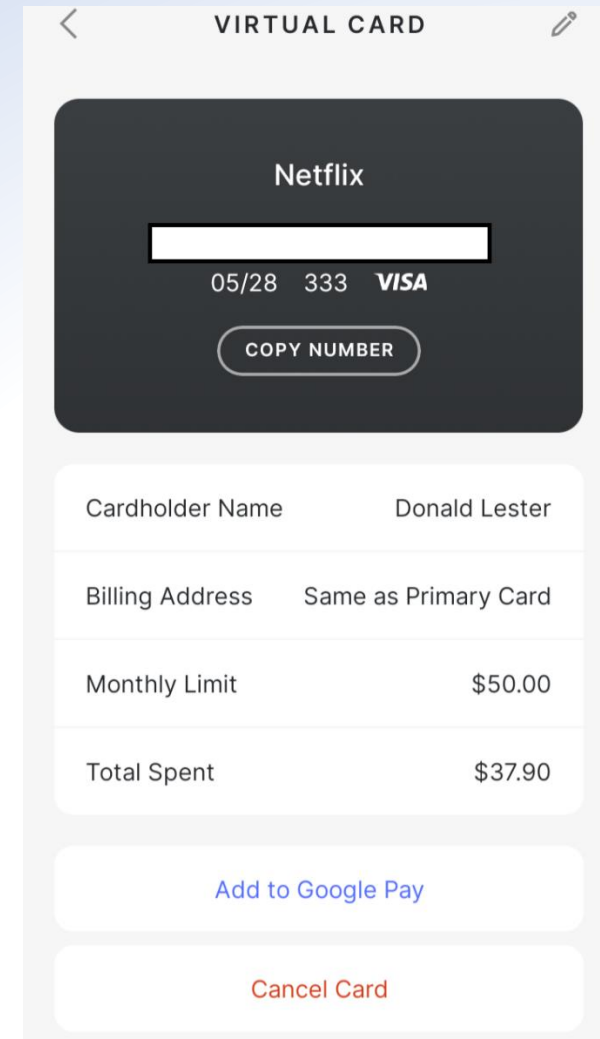
Apple ...7523	\$130.18
HBO Max ...5170	\$121.31
PUD Bill Pay ...6442	\$1,257.75
City Of Moses Lake ...6505	\$1,741.52
FitBit Tap 2 Pay ...7051	\$172.81
Visible Wireless ...4571	\$445.00
Evolve Fitness ...3787	\$288.60
Pita Pit ...0305	\$373.00

Home 3X Points Boosts Cards Shop

A screenshot of a mobile application interface titled "Virtual Cards". It shows a list of active virtual cards with their respective merchant names and balances. The cards listed are: Apple (\$130.18), HBO Max (\$121.31), PUD Bill Pay (\$1,257.75), City Of Moses Lake (\$1,741.52), FitBit Tap 2 Pay (\$172.81), Visible Wireless (\$445.00), Evolve Fitness (\$288.60), and Pita Pit (\$373.00). Each card entry includes a partial card number (e.g., ...7523). At the bottom of the screen, there is a navigation bar with icons for Home, 3X Points, Boosts, Cards, and Shop. A blue plus sign (+) is visible in the bottom right corner of the card list area.

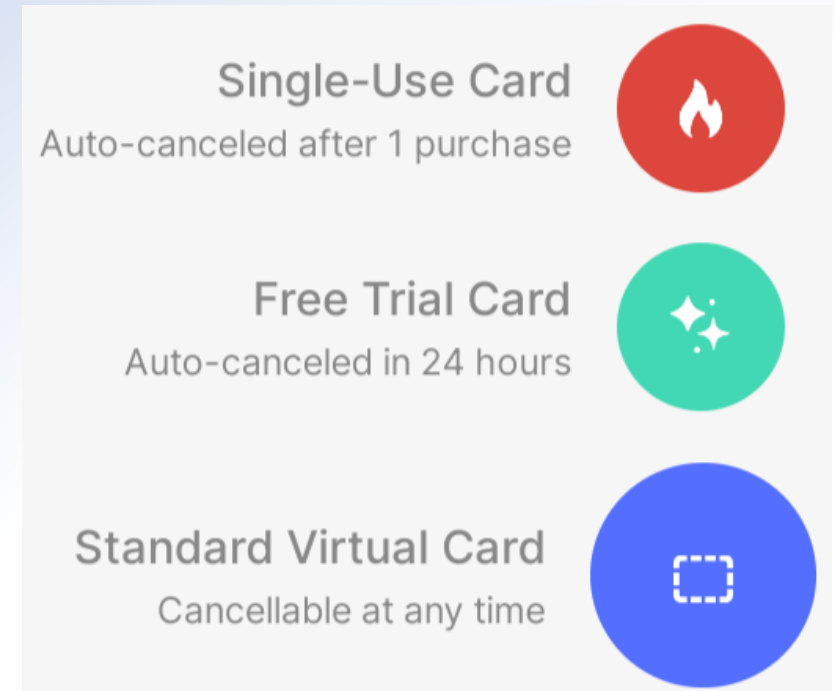
Protecting Online Financial Transactions

- Each virtual card can have defined spending limits to minimize risk (ie, Netflix can be limited to \$50/month)



Protecting Online Financial Transactions

- Card types for additional protection
- If you only plan to buy one thing from a particular vendor, make a single use card. It is automatically canceled after the transaction goes through.
- Forget to cancel a 'free' trial? Use a card that automatically cancels after 24 hours so you cannot be automatically re-billed.



THE END



Powering our way of life.

EPMO

Enterprise Project Management Office

Commission Quarterly Update
February 2024



Powering our way of life.

Today's Topics



Department Purpose and Culture



Department Personnel Summary



Current Projects



Safety Update



Portfolio Summary and Accomplishments



Presentation by T&G Project Coordinator Sarah Sherman

ENTERPRISE PROJECT MANAGEMENT OFFICE

PURPOSE: Reduce project delivery risk by driving industry leading safety performance, monitoring and managing quality, and optimizing efficiency.

Mission: Deliver projects as predictably and efficiently as possible to generate the highest value for the benefit of our core customers.

Vision: Consistently plan and deliver projects aligned with the priorities of the organization to best utilize our resources while supporting our strategic objectives.

Power Production

Power Delivery

Enterprise Technology

Facilities

Project Services



Projects@Grant

Our Culture

We lead with overarching responsibility to



Our employees, contractors and customers.

We embody our organization's values to do what is right for people. We care about people's perspectives and are intentional on how we treat each other.

We manage our work to these priorities:

#1

SAFETY



#2

QUALITY



#3

EFFICIENCY



Department Personnel Summary

Department	FTR	New Personnel Since Last Report	Contractor
EPMO (JB0000)	1	None	0
Power Production (JB1000)	8	None	1
Power Delivery (JB2000)	10	Emily Damento - Contractor	5
Enterprise Technology (JB3000)	3	None	1
Facilities/Project Services (JB4000)	7	None	3
TOTAL	29	None	10

TOTAL FTR and Contractor = 39

Contractors continue to be a highly relied upon resource pool to complete work.

Current EPMO Run Projects

Department	Project Name	Project Phase
Facilities/Project Services	FMPI - PDF_PD Facilities	Planning
Power Production	PR Turbine Upgrade	Execution
	PR Dam Unit Controls	Execution
	PP LOTO System	Planning
	WAN CO2 Replacement	Planning
	PR CO2 Replacement	Planning
	PR Generator Rewind	Execution
	PR Hatchery Siphon Intake Renovation	Planning
	PR Spillway Stability Improvements	Planning
	PRP Station & Substation Replace	Planning
	Wanapum Emergency Diesel Generator	Planning
	Enterprise Technology	Replace Energy Management System (EMS)
Network Core Replacement (Fiber backbone)		Planning
Records Management Info Governance		Execution
Field Service Management (Clevest)		Closing
Firewall Modernization		Closing

Current EPMO Run Projects

Department	Project Name	Project Phase
Power Delivery	DB2 Baird Springs Substation	Execution
	DB2 Frenchman Hill Substation	Execution
	DB2 Mountain View Cap Bank	Execution
	DB2 Red Rock Substation	Execution
	DB2 Red Rock Transmission	Execution
	DB2 South Ephrata Substation	Execution
	DB2 Microsoft MWH06	Initiation
	IQ3 ECBID 22.1 Ruff Substation	Planning
	IQ5 SR Quincy Valley	Planning
	LAR-STRAT 115kV Relocation	Planning
	LPS Quincy Foothills Substation	Execution
	LPS West Canal Substation	Execution
	QTEP Local Loops	Planning
	QTEP Monument Hill	Planning
	QTEP MT View Breaker & Half	Planning
	QTEP WAN MT View 230kV Line	Planning
	QTEP Wan Switchyard	Planning
	QTEP Segment COL RF LAR 230 kV	Planning

Safety Update



Recordable incidents: 0



Vehicle incidents: 0



Continued emphasis on job site reviews and contractor safety



Expect 100% attendance at safety meetings and complete trainings

EPMO Accomplishments

Executed progressive design-build contract for Ephrata Service Center	Went live with a Project Services SharePoint Page, including request for service app	Developed new metrics reporting for project Status Reports	Developed operating procedures for EPMO continuous improvement
Completed Disassembly phase of Unit 6 for T&G project 7 days ahead of schedule	5 Power Production personel passed CAPM exam in 2023	Negotiated a deductive scope change order for Station Service Project	Power Delivery team added two PMP and one CAPM certification
WBS development with project teams on QTEP project	Fiber project able to work through majority of winter with favorable conditions	IQ 5 planning schedule and cost established	Planning and design to upgrade aging Fiber backbone (Network Core)

Professional work completed by the entire EPMO Teams to provide value to our customers.

ENTERPRISE PROJECT MANAGEMENT OFFICE

Executive Strategy Summary (Enterprise Project Management Office): This strategy aims at maximizing the value of our human resource outputs, reducing safety and financial risk, increasing our project delivery efficiency, and generating better data for business decision making. The EPMO has developed this strategy in order to optimally deliver projects which face constraints on human resources and material availability, and increased demand for our utility's services.

Time Horizon for Completion: Q1 2024 – Q2 2025

- Top Strategic Initiatives:**
1. Enhance Project Controls Capabilities
 2. Increase Project Performance Visibility
 3. Enhance Project Manager Effectiveness
 4. Expand & Enhance Project Services

Capability Targeted & Primary Success Indicator:

Capability	Indicator
Safety Performance	Zero lost time injuries on all projects for contractors and District employees
Project Controls	80% of projects have cost & resource loaded schedules 75% of non-ET projects report Earned Value, Cost Performance, & Schedule Performance during Planning & Execution Phases
Project Management	60% of projects have an SPI & CPI =1> during execution
PM Effectiveness	EPMO Framework training plan developed & content created
Project Services	Inspectors utilized on all EPMO run construction projects
People 1 st Culture	70 th Percentile in Q12 for EPMO departments

- Key Functions & Responsibilities:**
- Manage level 2 & 3 complexity projects and programs
 - Establish and govern the process for Initiating, Planning, Executing, & Closing projects
 - Monitor, manage, & report project performance
 - Risk management
 - Construction management
 - Inspection services

- Risks & Dependencies:**
- Organizational support for proper project planning
 - Resource availability
 - OCM support
 - Enterprise portfolio prioritization & slotting
 - Project controls technical expertise
 - Data management & reporting tools
 - BAO support

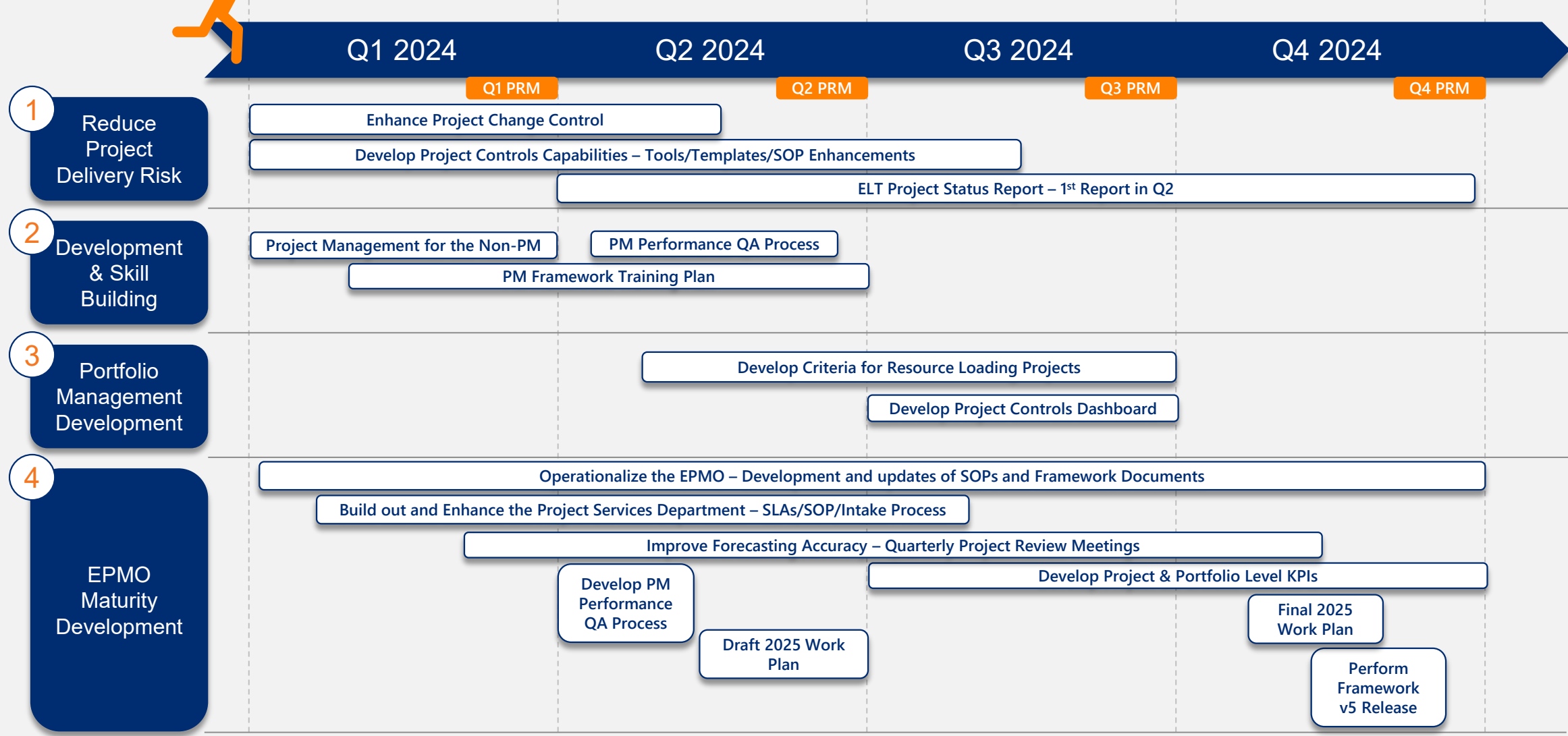
- Connection to Strategic Objectives:**
1. Anchor: Focus on our core electric customers while still ensuring the success of all our customers
 2. Key Objective #4: Provide long-term low rates
 3. Organizational Pillar #1: Ensuring long-term affordable rates for our core electric customers
 4. Ensuring the highest value for the rate payer dollars we spend to operate, maintain, and develop our business.

- Reference Artifacts:**
1. EPMO Framework
 2. EPMO SWOT/Pain Points/Capabilities
 3. CAO SWOT/Pain Points/Capabilities
 4. EPMO Roadmap
 5. EPMO Dashboard
 6. EPMO SharePoint

- Underlying Beliefs & Assumption Considerations:**
1. Acceptance of EPMO approach continues to face challenges
 2. Project planning MUST be prioritized & supported
 3. Project slotting & resource loading will impact EPMO effectiveness
 4. Internal resources will be prioritized to projects

EPMO Roadmap 2024

Activities & deliverables





T&G Material Management

Sarah Sherman

Project Coordinator - EPMO

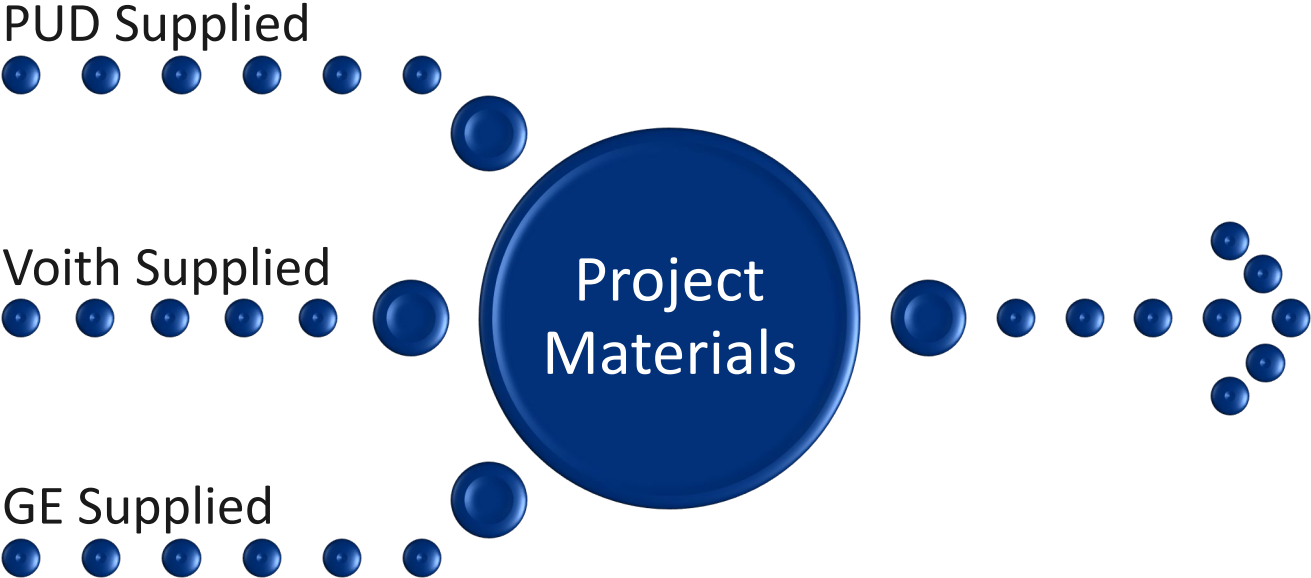
Priest Rapids Turbine Generator Upgrade Project

Agenda

- **Material Sourcing**
- **Subprojects**
- **PO Tracking & Lead Times**
- **Work Package Material Kits**
- **Overall Process Improvements**



Material Sourcing



EX. Material Spreadsheet

DESCRIPTION and/or P/N	QTY	DIA 1	DIA 2	THDS/INCH OR THICKNESS	THREAD LENGTH 1	THREAD LENGTH 2	OVRRLL LENGTH	BF "NO THRD ZONE" DIAMETER	BF "NO THRD ZONE" IT LENGTH	MATERIAL	GRADE	Part Description	COMMENTS	Order New Y/N?	SUPPLIER
SHAFT COUPLING	18											NUT, CUSTOM - GE TO SUPPLY	TURBINE SHAFT TO GENERATOR SHAFT FASTENERS - LOWER	N	GE
SHAFT COUPLING	18											NUT, CUSTOM WITH RADIAL HOLES - GE TO SUPPLY	TURBINE SHAFT TO GENERATOR SHAFT FASTENERS - UPPER	N	GE
PACKING BOX	4	1/4		20						SS		NUT, HEAVY HEX, 1/4", SS, 17-4 PH	Catch Plate Basin Split Fasteners	Y	VOITH
SHAFT COUPLING	18	M100								SS		NUT, M100 X 6, CUSTOM	RUNNER TO TURBINE SHAFT FASTENERS	N	VOITH
SERVOMOTOR	2											NUT, SUPERBOLT, MT-450-8/W	SERVOMOTOR ROD TO OPERATING RING FASTENERS	N	VOITH
RUNNER- NEW	8	M100		x6								NUT, SUPERBOLT, MT-M100X6 - REUSE	UPPER TURNING LEVER (HUB SIDE) FASTENERS	N	REUSE
GATE MECHANISM	1	3/8										O-RING - RUBBER CORD, 3/8" THICK	GATE CARTRIDGE ROUND RUBBER CORD (NITRILE 70 DURO), FIELD CUT, ASSEMBLE, AND BOND WITH BONDING ADHESIVE (600.322813)	N	VOITH
INNER HEADCOVER	1	3/8										O-RING - RUBBER CORD, 3/8" THICK (223 FT)	HEADCOVER SEAL, INSTALL WITH BONDING ADHESIVE (600.322813)	N	VOITH
PACKING BOX	1	1/4					15LF					O-RING, 1/4" DIA, 15 LF, NITRILE 70 DURO	Upper to Lower Housing Rubber Cord	Y	VOITH
OIL PIPE	1	1/4										O-RING, 1/4" X 5 FT (O-ring cord stock, Buna-N)	OIL HEAD OUTER TUBE TO UPPER GENERATOR SHAFT	N	VOITH
OIL HEAD	1											O-RING, 3/8" (O-ring cord stock, Buna-N)	#02 UPPER HOUSING TO UPPER BEARING DEFLECTOR END COVER	Y	GCPUD
RUNNER- NEW	1	3/8										O-RING, 3/8" DIA, NITRILE 70 DURO (CUT TO FIT - Approx. 205" length)	DEFLECTOR END COVER	N	VOITH
RUNNER- NEW	1											O-RING, 3/8" DIA, NITRILE 70 DURO (CUT TO FIT - Approx. 69" length)	DEFLECTOR COVER END ACCESS	N	VOITH
SHAFT COUPLING	8LF	3/8										O-RING, 3/8", 8 LF - GE TO SUPPLY (O-ring cord stock, Buna-N)	TURBINE SHAFT TO GENERATOR SHAFT, WITH ADHESIVE PER DRAWING SPECIFICATION	N	GE
THRUST BEARING POT	70	7										O-RING, 7mm (0.276") THK, BUNA-N RUBBER CORD	SEAL RING (O-RING GROOVES)	Y	GCPUD
RUNNER- NEW	1											O-RING, PISTON ROD SEAL - TRELLEBORG SEALING SOLUTIONS (P/N RG4308000-T46)	PISTON ROD SEAL	N	VOITH
PACKING BOX		3/16					8LF					O-RING, ROUND RUBBER CORD, NITRILE 70 DURO, 3/16" DIA, 8 LF	Seal Plate Rubber Cord	Y	VOITH
PACKING BOX		3/8					21LF					O-RING, ROUND RUBBER CORD, NITRILE 70 DURO, 3/8" DIA, 21 LF	Lower Housing to IHC Rubber Cord	Y	VOITH
RUNNER- NEW	1											O-RING, RUBBER, NITRILE 70 DURO (PARKER NO. 2-449)	SEAL BETWEEN INNER OIL PIPE COUPLING AND CYLINDER BOTTOM	N	VOITH
RUNNER- NEW	1											O-RING, RUBBER, NITRILE 70 DURO, 1/4" DIA CORD	SEAL BETWEEN CROSSHEAD AND CYLINDER BOTTOM, 260" LONG, .25" DIA ROUND CORD, INSTALL WITH LOCTITE 380	N	VOITH
RUNNER- NEW	1											O-RING, RUBBER, NITRILE 70 DURO, 1/4" DIA CORD	SEAL BETWEEN GUIDE TRUNNION HOUSING AND DEFLECTOR, 100" LONG, .25" DIA ROUND CORD, INSTALL WITH LOCTITE 380	N	VOITH
PIPING - AIR ADMISSION												O-RING, RUBBER, NITRILE 70 DURO, 1/4" DIA, 26 FT	26 FT 0.25" DIAMETER O-RING	Y	GCPUD
RUNNER- NEW	1											O-RING, RUBBER, NITRILE 70 DURO, 3/8" DIA CORD	SEAL BETWEEN DEFLECTOR AND HUB, 330" LONG, .375" DIA ROUND CORD, INSTALL WITH LOCTITE 380	N	VOITH
RUNNER- NEW	2											O-RING, RUBBER, NITRILE 70 DURO, PARKER NO. 2-462	OUTER KAPLAN OIL PIPE SEALS, PARKER NO. 2-462	N	VOITH
PIPING - AIR ADMISSION												O-RING, SEALANT, 1/2" DIA, 15 FT	CHESTERTON, TYP 185 EXP PTFE GASKET# 004830, 0.500 x 15 FT	Y	GCPUD
DRAFT TUBE PLATFORM	4									SS	304	OUTER WELD RING	DRAFT TUBE SUPPORT PLATFORM	Y	GCPUD
RUNNER- NEW	1											PAINT	WASSER MC-TAR (COLOR: RED OXIDE)	N	VOITH
RUNNER- NEW	1											PAINT	WASSER MC-TAR (COLOR: RED OXIDE)	N	VOITH
RUNNER- NEW	7											PART	OUTER LINK	N	VOITH

Subprojects

- **Delegation of unit sub-systems and associated procurement activities to team members.**
 - **Fabrication of custom-made parts for unit reassembly.**
 - **Procurement of materials for sub-systems.**
 - **Contracts with contractors for specialized onsite work.**

Material Management PRD-TG Upgrade Project

Grid **Board** Charts Schedule ...

Subprojects (Fabrication)

- + Add task
- Rehab**
 - Governor Cabinet Doors
🔗 1 🕒 3 / 6
- Rehab**
 - Air Housing Hatch
🔗 1 🕒 2 / 3
 - 📅 05/29
- Rehab** **Assembly**
 - OWS Radiused Pipe (1-1/2" & 3")
- Assembly**
 - Turbine Pit Deck Blocks/Shims
🔗 2 🕒 1 / 3
- Completed tasks 9

Subprojects (Inventory)

- + Add task
- Rehab** **Assembly**
 - Piping & Tubing
🔗 3 / 4
- Rehab** **Assembly**
 - Standard Fasteners
🔗 3 / 4
- Rehab** **Assembly**
 - Custom Fasteners
- Rehab**
 - Gen. Air Cooler Valve Flange Spacers
🔗 1 🕒 1 / 3
- Rehab** **Assembly**
 - Lock Tab Fabrication
🔗 1 🕒 0 / 3
- Rehab** **Assembly**
 - Pre-assembly Restock
🕒 0 / 2











Subprojects (Shipping)

- + Add task
- Disassembly**
 - Scrap Runner & INHC
🔗 1 🕒 4 / 13
- Rehab**
 - Nonembedded Parts Tracking
🔗 1 🕒 0 / 2
- Disassembly** **Rehab**
 - Lower Bracket Rehab
🔗 1 🕒 5 / 6
- Completed tasks 1

PO Tracking

- Keep track of outstanding POs.
- Generate a forecasted material spend report.
- Avoid duplicate material purchases between team members.

Purchase Order Tracking ☆ ☾

Vendor ▾	PO Date ↓ ▾	Purchaser ▾	Amount ▾	Received ▾	Comments ▾
McMaster Carr	12/18/2023	 Sarah Sherman	\$99.91	✓	3/4" union bushings & nordlock washers
Grainger	12/13/2023	 Tristan Poteet	\$1,135.41	✓	1-ton comealong calibration
K&N Electric	12/11/2023	 Sarah Sherman	\$1,583.24		Hi-Lift pump/motor Received adapter mount 2/6/24 - pump/motor outstanding
Grainger	12/11/2023	 Tristan Poteet	\$538.15	✓	Half ton comealong calibration
Grainger	12/11/2023	 Tristan Poteet	\$1,189.13	✓	Lifting hardware
Inland Pipe	12/07/2023	 Sarah Sherman	\$150,876.15		Stock piping order Partially received as of 1/08/24
Grainger	12/07/2023	 Tristan Poteet	\$1,275.48	✓	Hoist rings
McMaster Carr	11/30/2023	 Sarah Sherman	\$515.99	✓	Concrete anchors
Western Integrated Tech	11/27/2023	 Sarah Sherman	\$2,106.06		Hi-Lift O-ring adapters Partially received, 3/8" check valves outstanding (ETA 2/26/24)
Moses Lake Steel	11/15/2023	 Sarah Sherman	\$1,412.67	✓	Bar angle, etc. for pit liner drainage & concrete modifications

PO Tracking – Spend Report

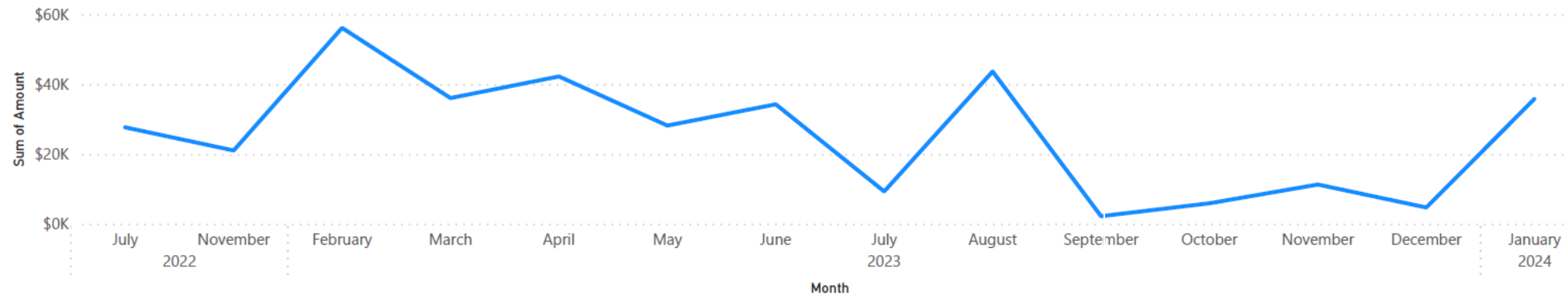
Year	False	True	Total
2022		\$48,705.12	\$48,705.12
2023	\$182,054.97	\$274,005.26	\$456,060.23
February		\$56,130.67	\$56,130.67
March		\$36,042.9	\$36,042.9
April		\$42,231.54	\$42,231.54
May		\$28,171.93	\$28,171.93
June		\$34,260.8	\$34,260.8
July		\$9,321.68	\$9,321.68
August		\$43,639.72	\$43,639.72
September	\$23,374.58	\$2,241.47	\$25,616.05
October		\$5,933.65	\$5,933.65
November		\$11,298.09	\$11,298.09
December	\$158,680.39	\$4,732.81	\$163,413.2
2024	\$4,906.78	\$35,880	\$40,786.78
January	\$4,906.78	\$35,880	\$40,786.78
Total	\$186,961.75	\$358,590.38	\$545,552.13

True = Received
False = Not Yet Received

Highlighted green = P01 material costs to date

- Greater visibility of overall project material costs.
- Increased awareness of when material costs will hit budget.

Sum of Amount by Year and Month







Lead Times

○ Stator Cooler H2O Valves (3-1/2") **for U7**

Last changed 10/23/2023 by you

 Assign

 Rehab ✕

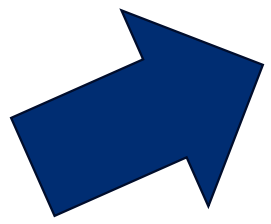
Bucket Subprojects (Inventory) ▼	Progress  In progress ▼	Priority ● Medium ▼
Start date Start anytime 	Due date Due anytime 	Repeat  Does not repeat ▼



Notes Show on card

(24 each) 3-1/2" isolation valves per unit.

Checklist 2 / 3 Show on card

- RFQ
- PO-Submitted
- Received



-  Sarah Sherman September 26, 2023 2:55 PM
PO submitted 9/26. Lead time is 32 weeks (est. delivery date 5/13/24)
-  Sarah Sherman September 18, 2023 11:29 AM
Ordering for U07. RFQ sent to Inland Pipe on 9/18. Awaiting quote.

- **Long lead time materials have been identified over course of T&G project.**
- **T&G team's control over material procurement allows for mitigation of schedule impact risks.**
- **Recording historical lead times for future reference.**

Work Package Kits

Work Package Kits ★ ☑



Title
REH-002p

Activity
Farval

Material Type
Piping

Kit Completed
Yes

Need By Date
2/15/2024



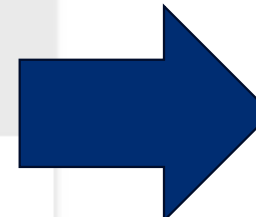
Title
REA-002o

Activity
Oil Water Separator

Material Type
Hardware & Piping

Kit Completed
Yes

Need By Date
2/19/2024



REH-002p

Title *

REH-002p

Activity

Farval

Material Type

Piping

Need By Date

2/15/2024

Kit Completed

✓

Notes

3/4" globe valves on back order - ETA 4/10

Kit Photo



Location

Enter value here

Project Phase

Rehab

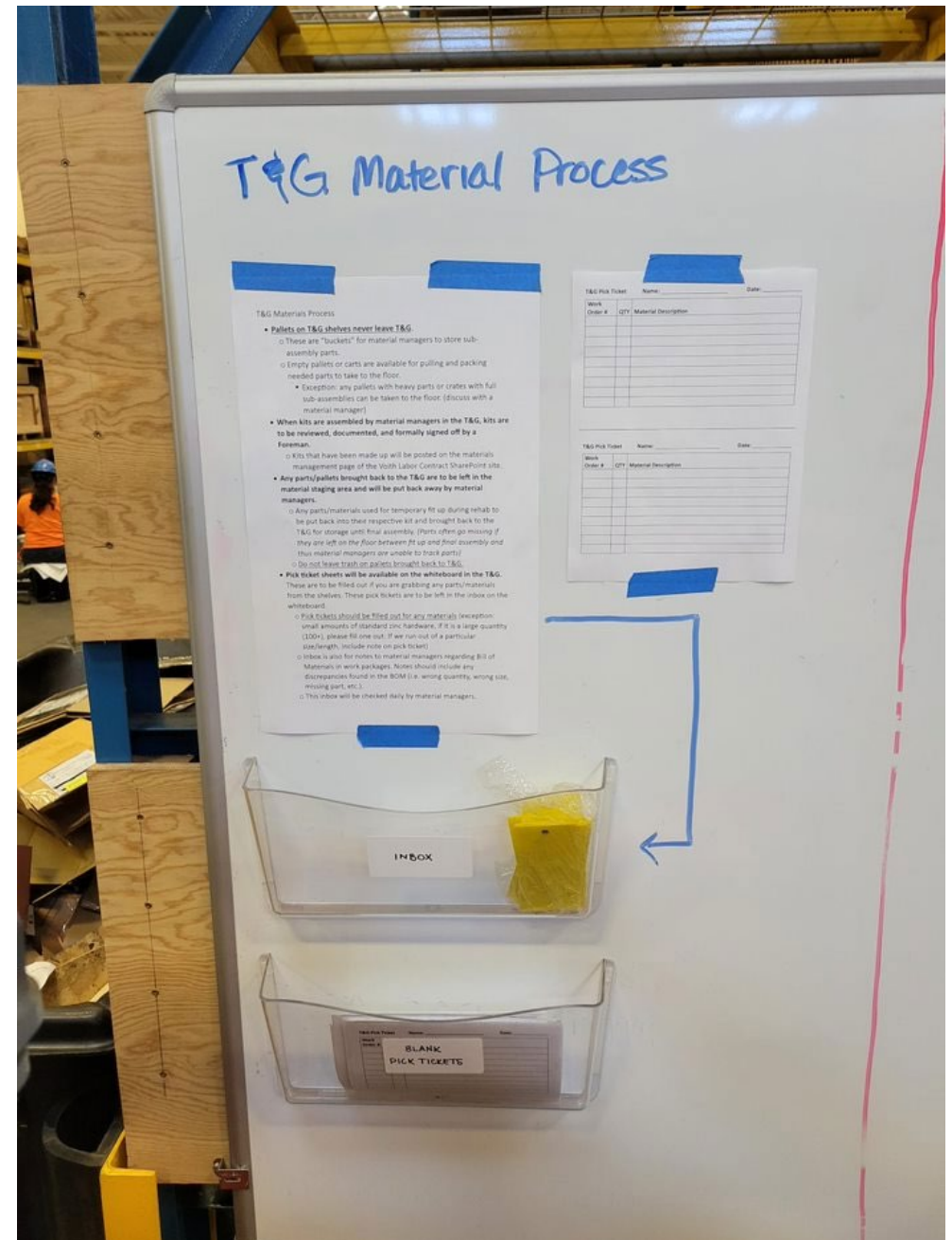
Work Package Kits

- Ensures contractor receives needed materials, broken out by work package.
 - (only parts that are needed – fewer lost parts/materials)
- Timing of material needs dictated by open communication & P6 schedule.
- SharePoint list allows any stakeholder to access information pertaining to status of work package kits.



Process Improvements

- Improved visibility and transparency of procurement activities.
- Improved tracking of materials from placement of PO to receiving onsite.
- Increased tracking of material spending & costs.
- Mitigation of schedule risks.
- Decrease in lost/misplaced parts & materials.
- Increased labor efficiency.



Giving Credit Where Credit is Due

JT Wallace (EPMO) – SharePoint Tools

Nick Sackmann – Previous Materials Coordinator

T&G Engineering Team – Subprojects

Aaron Kuntz & Vince Von Paul (EPMO) – Leadership

Procurement Department – Procurement

Hydro Warehouse Team – Receiving

Maintenance Center Team – Fabrication

Thank You



Powering our way of life.

Hybrid Credit Facility: Energy Supply Management

February 2024



Powering our way of life.

Outline

- I. ISDA Trading-Transaction Summaries
- II. Analysis-Why the Credit is Needed
- III. Treasury-Details on Credit Facility
- IV. Credit Timing

Energy Supply Management: Financial Trading

- The District's Estimated Unmet District Load (EUDL) is a substantial annual *financial* position.
 - The District hedges physical positions by buying or selling fixed amounts physical energy that will be delivered at a specified location at a fixed price.
 - In contrast, a financial position is an anticipated dollar amount that is subject to moving up or down in value based on the market price. Financial trading does not include a delivery of a commodity (energy) but fixes the price at which the District would buy or sell a particular commodity.
- Value for 2025 is \$297 million which is currently unhedged
 - 2024 Auction value was \$370 Million
- Financial trading will allow us to hedge this value to the best extent possible
 - Using physical trades to hedge financial positions can lead to being caught short physically
- The District has recently signed agreements with counterparties that will allow us to make these financial hedging trades (BP Energy and Conoco Phillips)

Energy Supply Management: Credit Needs

- The District already uses *physical* trades to hedge its physical positions
- These trades are subject to credit thresholds established by both parties and can include both unsecured and secured credit requirements
- Credit exposure is affected by mark-to-market valuation (a comparison between the purchase price and current market price)
- Mark-to-market movements can trigger the need to post additional credit collateral
- We currently do not have a way to post additional credit collateral, and would be forced to close the exposure *thereby negating the value of the hedge*

Energy Supply Management: Requirement

- The District needs the ability to post collateral to ensure the effectiveness of its physical and financial hedges
- Letters of credit are the only type of collateral that The District can provide due to restrictions imposed by Washington State law and our bond covenants
- Most companies who engage in hedging rely upon revolving credit facilities from banks to establish their letters of credit
- We are seeking the ability to provide our counterparties with letters of credit up to a combined maximum of \$50 million across all counterparties

Energy Supply Management: Analysis

Position Quantity	Probability per week of exceeding \$20mm	Probability per week of exceeding \$40mm
Q1 400 MWs	31%	13%
Q2 350 MWs	27%	11%
Q3 300 MWs	22%	9%
Q4 250 MWs	18%	7%

- On average, we expect a EUDL-sized portfolio to exceed \$20M in credit 25% of the time.
- And we expect to exceed an *additional* \$20M in credit 10% of the time.
- **A recent example of similar magnitude:** Grant currently has \$57M exposure to Morgan Stanley's 33% pooling deal

Treasury

Request for Proposal: Bank Analysis

- The District went through the Request for Proposal (RFP) process with the District's Financial Advisor, PFM. RFP documents were sent to 52 contacts at 35 different banking institutions.
- The bank selected for the hybrid credit facility was J.P. Morgan.
 - J.P. Morgan is compliant and can meet the needs of the ISDA contracts.
- Commission approval is needed for any debt transaction.
 - If the Letters of Credit are drawn upon, the District would enter into a subordinate debt contract.

Treasury

Credit Facility: Cost to Maintain

- The minimum cost to maintain the option to use up to \$20M of a line of credit or letter of credit is:
 - \$115k annually for a 3-year term (\$345k if no credit was drawn or letters written)
 - \$120k annually for a 4-year term (\$480k if no credit was drawn or letters written)
 - \$130k annually for a 5-year term (\$650k if no credit was drawn or letters written)

\$20,000,000 Facility Commitment fee		Year 1	Year 2	Year 3	Year 4	Year 5
Three Year	57.5 Basis	\$ 115,000.00	\$ 115,000.00	\$ 115,000.00		\$ 345,000.00
Four Year	60.0 Basis	\$ 120,000.00	\$ 120,000.00	\$ 120,000.00	\$ 120,000.00	\$ 480,000.00
Five Year	65 Basis	\$ 130,000.00	\$ 130,000.00	\$ 130,000.00	\$ 130,000.00	\$ 130,000.00 \$ 650,000.00

- Compliance to maintain*
 - Annual compliance through providing or posting audited financials
 - Currently updated by Accounting through External Affairs to public website
 - Compliance Certificate signed by Responsible Officer
 - Quarterly compliance through posting of unaudited financials
 - Currently provided by Accounting through quarterly updates to the Commission and published on the Commission Meeting external website
 - Continuous compliance
 - Notices of Material events

*Not all-inclusive of the agreement

Treasury

Credit Facility: Cost to Use Line of Credit

- Term of the Line of Credit is contingent upon the length of the agreement
- Each draw on the line of credit fee \$300
- Ex/ \$1M Taxable draw for 3 years at the applicable margin of 1.350% plus average SOFR costs \$60.3k annually (\$180.9k interest)
- Ex/ \$1M Taxable draw for 4 years at the applicable margin of 1.400% plus average SOFR costs \$60.8k annually (\$243.1k interest)
- Ex/ \$1M Taxable draw for 5 years at the applicable margin of 1.750% plus average SOFR costs \$64.3k annually (\$321.5k interest)

	\$300 Per Draw	AVG		SOFR		4.68%		
	Applicable Margin							
Pull (in millions)	\$1,000,000	\$3,000,000	\$5,000,000	\$10,000,000	\$15,000,000	\$20,000,000	Years	
1.275%	\$59,550	\$178,650	\$297,750	\$595,500	\$893,250	\$1,191,000	3 Tax-Exempt	
1.350%	\$60,300	\$180,900	\$301,500	\$603,000	\$904,500	\$1,206,000	3 Taxable	
1.325%	\$60,050	\$180,150	\$300,250	\$600,500	\$900,750	\$1,201,000	4 Tax-Exempt	
1.400%	\$60,800	\$182,400	\$304,000	\$608,000	\$912,000	\$1,216,000	4 Taxable	
1.400%	\$60,800	\$182,400	\$304,000	\$608,000	\$912,000	\$1,216,000	5 Tax-Exempt	
1.750%	\$64,300	\$192,900	\$321,500	\$643,000	\$964,500	\$1,286,000	5 Taxable	

- Line of Credit to be used on a Taxable basis
 - Can be used Tax-Exempt only if for qualifying capital projects; subject to Tax Counsel opinion and IRS Form 8038
- Not currently planning to use the Line of Credit, but the option is available

Treasury

Credit Facility: Cost to Issue Letters of Credit

- Cost to issue a letter of credit-to be determined with final agreement
- Compliance with usage and when the Letter of Credit is needed (internal process with ESM, Credit, and Treasury)
- Process to Request Letter of Credit
 - Hand deliver or telecopy requested date of issuance no less than 3 business days prior to date needed
 - Expiration Date for Letter of Credit
 - Beneficiary
 - Completed Letter of Credit Agreement Form
- Process to Expire Letter of Credit
 - 5 business days prior to Maturity Date
 - 1 year after the date of issuance
- Repayment: Letter of Credit drawn upon/paid by J.P. Morgan to counterparty
 - 2 hour window after payment by J.P. Morgan
 - The District enters into a separate Loan Agreement specific to the terms of the drawn upon Letter of Credit (subject to interest and payment terms)

Treasury

Timing of Credit Facility

- February 27, 2024: Commission review
- March 12, 2024: Commission approval
- After Commission approval: Line of Credit issued with J.P. Morgan
 - Initial Credit Agreement for \$20M (Combination of Letters of Credit and/or Line of Credit)
 - District Representatives authorized to increase to a not-to-exceed \$50M agreement with J.P. Morgan (Combination of Letters of Credit and/or Line of Credit)



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