Iowa-Illinois Safety Council Safety Award Program

Exemplifying and Representing Continuously Improving Organizations

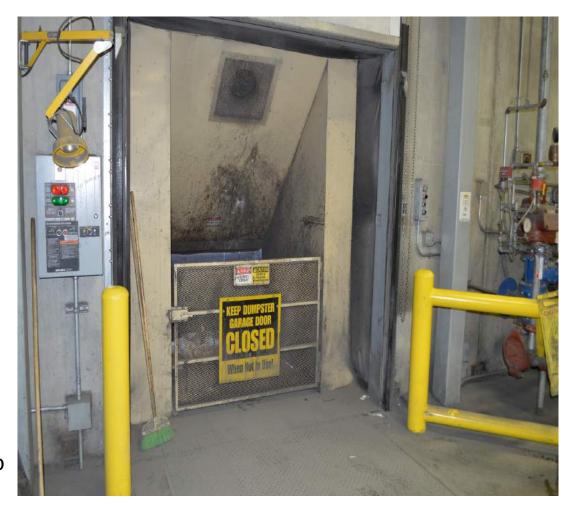
Submissions from 2015 – Part 3 (Awards given at the 2016 PDC)



Zero Waste Efforts Reduce Dumpster Use

Before: Employees from several departments were regularly exposed to fall and crushing hazards related to dumping and compacting refuse.

After: Zero Waste efforts diverted great volumes of waste from the landfill, decreasing how often employees must work with the compactor. Dumpster pick ups decreased from once a week to once every 3 or 4 and now those who dumped spoiled and damaged food products almost never have to use it.



Opportunities for Encouragement Added to Safety Walkthroughs

Before: The Warehouse Safety Walkthroughs scheduled for each shift were focused on finding deficiencies in the facility and in employee behaviors, sometimes leading to safety violations or maintenance requests.

After: A new section was added to Safety Walkthroughs providing an opportunity to recognize employees for using some of our core safety practices. For the areas of lifting, equipment operation and stretching, the walkthrough leader notes someone they observe using those practices, marks which ones, gives them encouragement for using them and gets their initials on the form confirming they followed up with them. Now walkthroughs result in more employees receiving positive reinforcement for working safely, than they do in safety violations and maintenance requests.

Walkthro	ough Leader	Supervisor	_	Shift	Date	Start Time	End Time		
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Employee name		Behavior observed					EE initials		
/N was obser	rved using safe lifting!] head up, eyes forward] moved feet, didn't twist			
0.00	Skale operating eq. safetyt	[v] kept feet in bounds [M] walked to side [] slo			[] slowed a	ooked both ways lowed at intersection horoughly inspected eq.			
Tick F.1 Indicated [9] stretched to start [1] warmed up first [1] stretched mid [1] held for 30 sec. [1] other:							JC		
POTCHECK	ITEM	Observe multiple empli	ovees and ta	illy how f	requently vo	u see these or	actices use		
ractices:						Yes	No		
Approached I	111								
Adopted a wi	71								
Location	week with the second of						Action taken		
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QUIPMENT	SIGN OUT Rando	omly audit the following	pieces of eq	uipment	Use 535 to	check.			
Eq.#									
Palle	Pallet Jacks (singles & doubles) 6.160 Tenking						Signed Y/N		
157 1	Mike Janes (X/N Forklifts (one dock stock						sible)		
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Warehouse Safety Walkthrough—August 2015 Good Time: 45 minutes

Reducing Noise Levels in the Lobster Room

Before: New water pumps for our lobster tank increased the noise level in the area.



After: Sound baffling material was used to reduce the amount of noise produced by the water pumps.

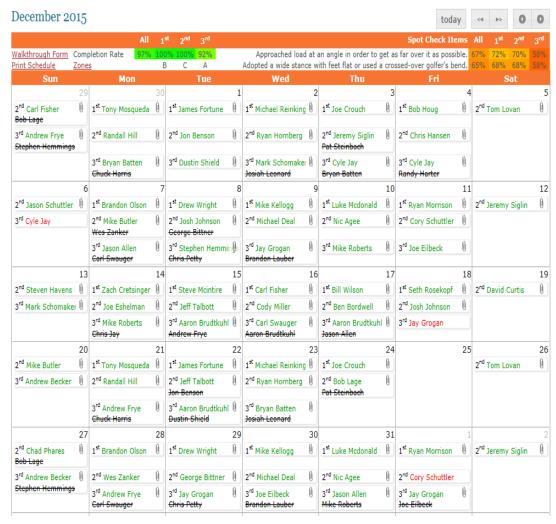


Online Walkthrough Calendar

Before: Safety Walkthroughs are an important tool for spotting unsafe conditions, ensuring equipment is signed out and encouraging safe behaviors, but the percentage completed had fallen from 95.5% in 2013 to 86.4% in 2014. The rate continued to fall in 2015. Occasionally last month's form was used, leading to part of the warehouse getting skipped that day.

After: An online Safety Walkthrough calendar was launched, creating much greater visibility, accountability, and convenience for completing walkthroughs. It also became the only method for printing walkthrough forms, eliminating saving down old ones. Other features include highlighting employees who need someone else to cover their walkthrough because they scheduled the day off, tracking substitutions to determine if changes need to be made to the walkthrough schedule, and a running walkthrough completion rate. The rate climbed from 79.5% for Jan.— Sept., to 93.6% for Oct.—Dec. 2015.

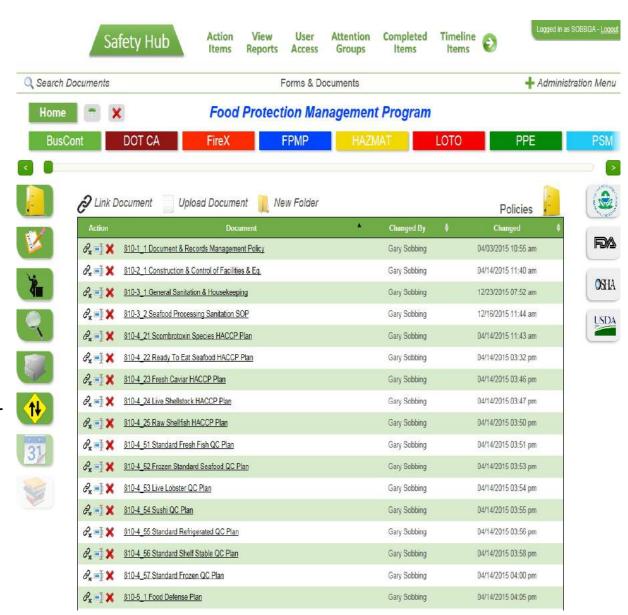
Safety Walkthroughs



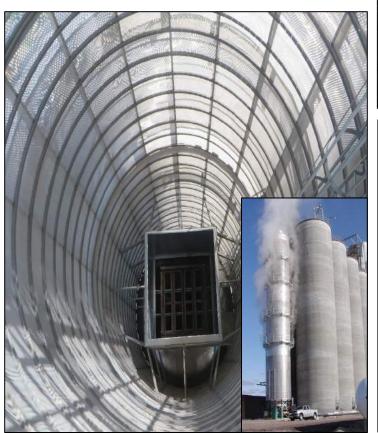
Enhanced Document Management & Compliance Calendar

Before: Policies, forms, training materials and other aspects of safety programs were stored in various locations. This made it difficult to keep them all updated, and easy for things to slip through the cracks.

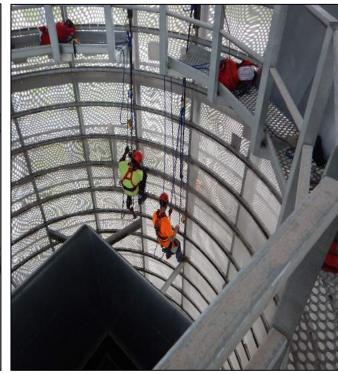
After: A Forms & Documents tab was added to our online Safety Hub, streamlining management of the numerous safety programs. Among other things, it ensures that only the most current versions of policies are made available, and allows users to set up reminders on a compliance calendar.



PMI lowa was hired to change broken screens inside of Tower Grain Dryers at all levels, exposing employees to fall hazards up to 85 feet. There are no anchor points or suitable structure for tie-off inside of the dryer. We were committed to doing this safely, with no injuries and remaining tied off 100% the entire time.







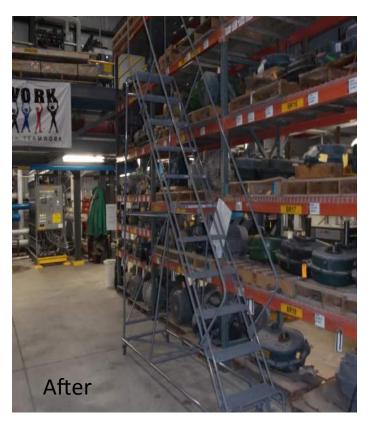
PMI designed, certified and manufactured suitable anchor points, trained employees in rope access techniques and developed a procedure for changing screens at any height inside of the dryer while remaining tied off 100% of the time and protecting the rope systems from the multiple sharp edges inside of the dryer.



Project: Cycle Count Stairs

The cycle count ladder was replaced. The new stairs are sturdier and have railings for convenience and added safety. We are also able to safely access higher shelves with the new stairs. The new cycle count stairs also lock in place during use to avoid movement.





Re-designed Lockout Station





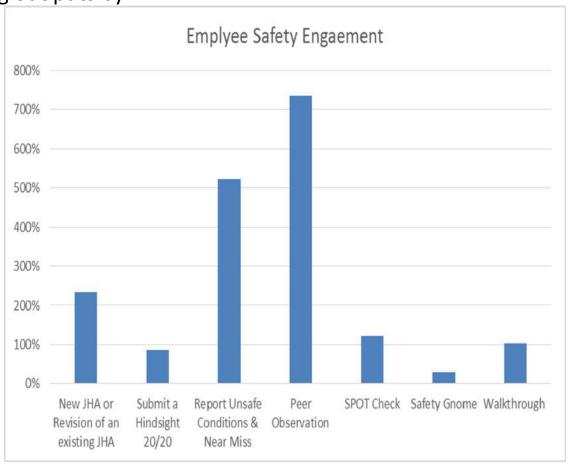
Previously we had a cabinet with nonspecific LOTO boxes and lockout devices. The cabinet was a disorganized mess. Now we have an organized LOTO station with pre-made-up bags and group boxes specific to common lockouts throughout the plant, making LOTOs safer and more straight-forward.

Glove Use and Hazard Matrix

Common Name	Picture	Location	Chemical Protection	Puncture Resistance	Tear Resistance	ASTM Voltage Rated	Use	Blood Born Pathogens	Cold Weather	Hot Surfaces
Leather			NO PROTECTION	✓	\	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	PROTECTION LIMITED JHA MUST BE AUTHORIZED	✓
Chemical	3 <u>p</u>	Ta state of the st	/	PROTECTION LIMITED JHA MUST BE AUTHORIZED	NO PROTECTION	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	NO PROTECTION	NO PROTECTION
Winter		Ordered by Maintenance Clerk	NO PROTECTION	\	\	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	√	✓
Winter		Ordered by Maintenance Clerk	NO PROTECTION	✓	\	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	✓	✓
Welding Gloves		Ordered by Maintenance Clerk	NO PROTECTION	✓	\	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	✓	/
Welding Gloves	9	Ordered by Maintenance Clerk	NO PROTECTION	✓		NO PROTECTION	Multiple Upon inspection	NO PROTECTION	✓	✓
Dish Washing		Ordered by Maintenance Clerk	PROTECTION LIMITED JHA MUST BE AUTHORIZED	NO PROTECTION	NO PROTECTION	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	NO PROTECTION	NO PROTECTION
Cut Resistant			NO PROTECTION	√	√	NO PROTECTION	Multiple Upon inspection	NO PROTECTION	PROTECTION LIMITED JHA MUST BE AUTHORIZED	NO PROTECTION
Electrical 5000 volts		Ordered by Maintenance Manager	NO PROTECTION	NO PROTECTION	NO PROTECTION	√	Multiple Upon inspection	NO PROTECTION	NO PROTECTION	NO PROTECTION
Synthetic		Ordered by Lab Manager	PROTECTION LIMITED JHA MUST BE AUTHORIZED	NO PROTECTION	NO PROTECTION	NO PROTECTION	Single	NO PROTECTION	NO PROTECTION	NO PROTECTION
Nitrile		Ordered by Lab Manager	PROTECTION LIMITED JHA MUST BE AUTHORIZED	NO PROTECTION	NO PROTECTION	NO PROTECTION	Single	√	NO PROTECTION	NO PROTECTION

Increased Employee Safety Engagement

By changing our Employee Safety Engagement Program in 2015 we increased the following out puts by...



Changes to our Safety Engagement Program...

- Awards
 - From: Gift Cards and PTO
 - To: Awards that hold a Trophy Value or creates a Memory with others
- Bank Points from one year to the next
- Changed Point Values of Activities based on Cultural needs and desired outcomes

Pathways and Exit Routes Blocked

BEFORE

Personnel tended to leave equipment, carts, boxes, etc. in pathways, exit routes, and in front of eyewash stations.





Areas of concern were identified and floor marking tape and floor signs were purchased and installed to provide indication of areas that were to be maintained clear. Special Eyewash Station mats were purchased and installed below all eyewash stations.

Fall Protection Harnesses Were Inadequate.

BEFORE

Existing fall protection harnesses were inadequate in quality and number. Harness inspections were not being conducted regularly and recorded as required. Because workers had to hunt down an available harness, they were not always properly and fully adjusted before use.

AFTER





New harnesses and shock absorbing lanyards were purchased in sufficient quantity for all personnel that may work aloft. Each harness is assigned a unique serial number and assigned to an individual worker. Each harness is then custom adjusted for the worker, ensuring proper fit and full protection of the harness. All required periodic and pre-use inspections/checks are tracked in the Plant Maintenance System.

Chemical Storage Tote Required Handling by Forklift to Dispense Process Chemical

BEFORE

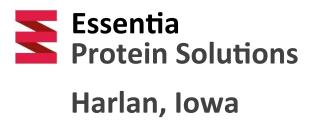
A chemical tote with an acid used in the production process had to be lifted by standup forklift and transported to a floor scale to weigh a Hazardous (proprietary) chemical into carboys for addition to the bulk process. The tote had the potential to tip off the forklift and result in chemical spillage.



AFTER



A tall spill skid was purchase as well as a dedicated battery powered scale that could be transported to the tote via pallet jack, weighed in place, and transported to the addition pump station without moving the chemical tote. The Chemical Tote is refilled with liquid pumped from drums.



Drain Guards



Safe guards from hot solutions





Essentia

Protein Solutions

Harlan, Iowa

Surge Tank Venting

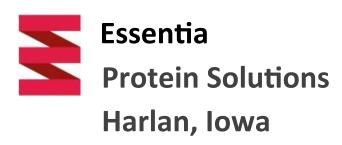


Before

Operator Protection from steam source



After



Cook Drain Lines – Independent Draining



Before



After

Eliminates opening cookers during operations for steam exposure



Essentia Protein Solutions Harlan, Iowa

Machine Guard Covers Bonemeal

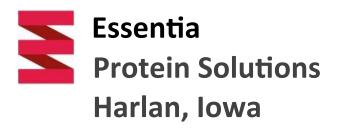
Ensure that machine guarding does not allow contact with power transmission parts. Cooker Room.



Before



After



Central Chemical Distribution



Before



Chemical isolation for employee safety when dealing with chemicals

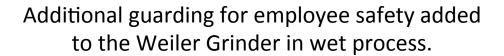
Machine Guarding Weiler Grinder













Added Fork Lift Safety

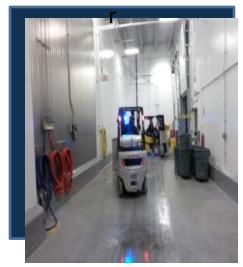


Before

To help additionally protect our employees from moving fork lifts, blue lights were mounted on the front and back of all plant fork lifts for improved visibility.



Afte





Handrail on Hammer Mill



Before

A handrail was added to the Hammer Mill to increase safety while accessing the mill.

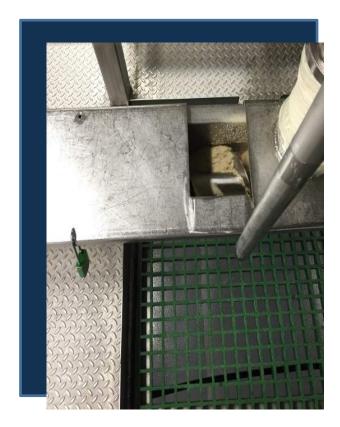


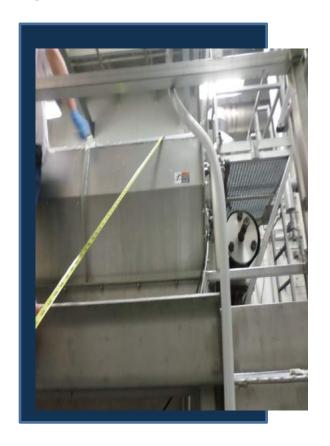
After





Extended Auger Hopper Drum Dryer #1





Before

After

The auger hopper in drum dryer #1 was extended by five inches to help protect employees.

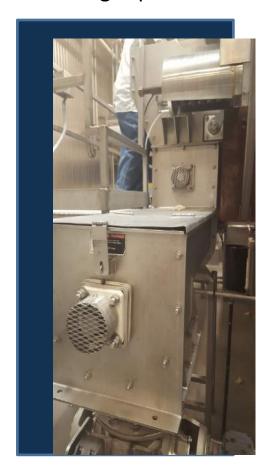


Bearing Caps

Prior to installing the new bearing caps on the dryers, these were open shafts. The addition of bearing caps increases







After



Auto Cooker Lids

Remote Winch Controls

Electric Winch Motors Mounted Under Cookers.



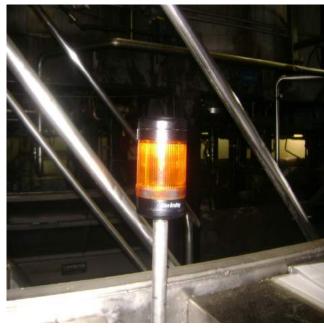


Auto Cooker Lids

Winch And Cable

Warning Lights At All Doorways And On The Control Box





New Chemical Dispensing System

Doorway Boot Foaming Stations

Remote CIP Controls





New Chemical Dispensing System

Wall Mount Foaming Stations

Bulk Chemicals





New Chemical Room

E- Stop Outside Of Chemical Room.

Dispensers In The New Chemical Room.





Warehouse Racking Changes

Old Racking With Forklift Damage.

New Racking With Angled Supports.





Logistics Tugger Material Handling Project



Old Process and Equipment

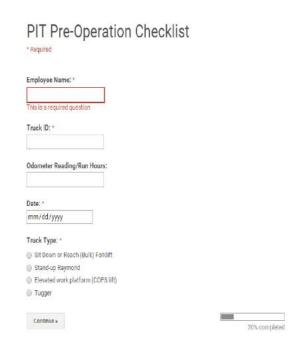


Challenged traditional method of routing materials by introducing a tugger system:

- Provides a safer environment for all employees by reducing the vehicle traffic in hallways
- Decreases number of movements required to complete workload
- Ergonomically friendly lifting for routers and end customers

Electronic Powered Industrial Truck Inspection Process





Development of a tool to electronically store PIT inspection sheets:

- Uses Google Forms to record inspection steps and automates routine data collection with barcodes
- When a truck is marked as "needs maintenance" the manager is automatically send an email

Electronic Chemical Library





- Electronic Material Library for chemicals used in manufacturing:
 - Tracks expiration dates, use, inventory and disposal using QR codes
 - Identifies who checked out chemical
 - Flags chemicals that are due to expire
 - Reduces waste and quality defects
 - Access controlled through sign-in and automatic cabinet locks.

Fall Protection for Aircraft Servicing



Old System



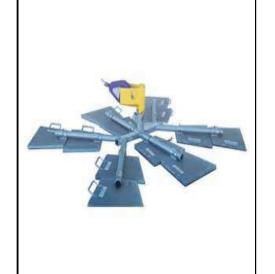
Servicing, repair and instrument installation can result in working at height on top of airplanes or on top of airplane tails and can pose challenges selecting the right fall protection. Use of stationary retractable lanyards suspended in the rafters required precise positioning of the aircraft. A new approach was desired:

- Vacuum anchors that fasten to the skin of the aircraft were selected (DBI Sala Mobi-Lok).
- Using 2 anchors with adjustable safety cable, workers can now safely walk from one end of the aircraft to the other or work independently on 2 separate aircraft.

Photo Credit - Capital Safety

Fall Protection

Not able to penetrate finished roof to secure a 5,000 lb anchor point





We purchased 2 Angel Anchor points. These are non-penetrating 5,000 lb anchor points that use a series of counterweights.

This will allow us to easily provide anchor points for our employees who must perform work on a finished roof.



This barricade was installed in 2015 by our wrapper machine. We identified this area as a potential for a work related injury due to employees ability to walk behind the wrapper machine while in operation. The operator did not have the ability to see anyone who may be walking behind the machine while in operation. By installing this barricade we have reduced the risk of an injury in this area.

1. Snap-on Tools – Algona, Iowa: Powered Industrial Trucks - traffic hazard – plantwide

Hazard:

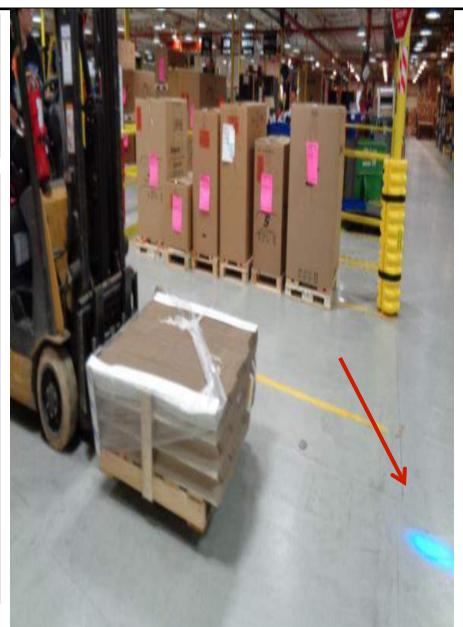
Fork truck traffic occurs in areas where associates are working.

This produces the potential for severe pedestrian/vehicular incidents.

Solution:

Installed "blue" lights to our Powered Industrial trucks. This provides associates with a visual notification that a Powered Industrial Truck is in the area, allowing them additional time to take precautions and avoid potentially serious incidents.

Blue lights send out a spotlight on the floor approx. 15 - 20 feet in front of the vehicle. Light is emitted when vehicle is moving forward or in reverse. Blue light, in addition to mandatory horn notification when approaching intersections, has greatly improved the safety of our associates and minimized the potential for serious vehicle/pedestrian injuries.



2. Snap-on Tools – Algona, Iowa: Manually lifting wooden boards onto a conveyor

Hazards:

Operators required to lift wooden boards from stacks on the floor and place them on a conveyor. Boards can weigh up to 30 pounds each.

Lifting concerns; sliver hazards; tripping hazards from boards on floor and disorganization of work area.



Solution:

- Wooden boards were replaced with plastic slip sheets weighing up to a max. of 18 lbs.
- Installed a Pick and Place system: tables holding various sized slip sheets are moved into the machine. Operator then selects size of slip sheet needed. Machine picks up sheet and places it on conveyor.
- Eliminated sliver and tripping hazards; improved Ergonomic lifting and minimized weight concerns.
- Provided an organized/safer work environment for workers performing the task and for anyone entering the work area.





3. Snap-on Tools – Algona, Iowa: Manually lifting /maneuvering chest sections

Hazard:

Ergonomic and Safety lifting concerns.

Potential for serious strains or sprains. Potential for units to slide/fall off conveyor & strike operator.

Operators had to manually flip top chest & drawer sections to perform required welding of the unit. Operators then lifted unit to insert slip sheet.

Sections could weigh up to 200 lbs.



Solution:

- Up-ender installed on the line. Up-ender: flips and lifts unit for the associate.
- Eliminated manual lifting and flipping of the units by the operator.
- Eliminated: potential for serious Strain and Sprain hazards and slipping/falling hazards.





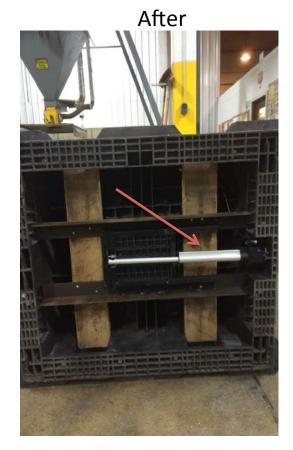


Section slid onto up-ender

Up-ender flips section

Up-ender lifts section



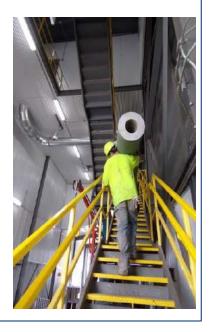


<u>Before:</u> In the before photo, the picture shows how our employees would normally open a pro-box full of seed. Typically, this would occur when loading semi trailers. An employee would be placed next to a stand that these boxes are placed on and manually open these slide gates. These boxes full can weigh anywhere between 2400-3000 pounds, posing a significant risk of injury if there were to be an issue.

After: We have made 3 boxes, in house, that are opened automatically by a remote operated by the fork lift drivers. When loading semi trailers, the fork lift operator will set the box onto the stand, use the remote to open the gate on the box allowing the seed to load onto the conveyor and into the truck. Going to the automated boxes removes the person from this process who previously open these slide gates by hand, significantly reducing the likelihood of an injury from this process.

Transporting Filters For Cleaning

When cleaning dust filters, maintenance was required to physically carry 46, 60 pound filters, down, then back up 7 flights of stairs.





A hoist was installed on the 7th floor allowing maintenance to transport filters to the ground floor safely.

Box Washer Safety Enhancement Project



Electric pallet lift allows the operator to adjust the stack to proper working height.

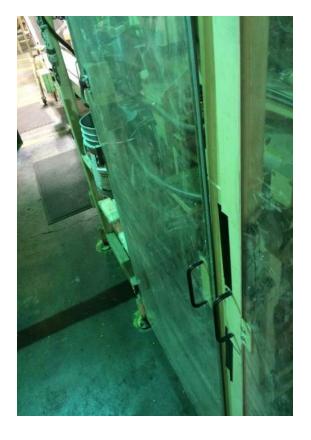
The pre-wash and inspection station were designed with careful consideration to ergonomics, slips, trips and falls heat stress, machine guarding and pedestrian safety



This new feature guides the bulk box onto the conveyor for proper alignment



Before After





Before: The bagger that puts seed into paper bags is relatively old, therefor lacking some safety equipment. These 2 doors are made of Plexiglas and can be opened while the product is being packaged into the bags.

After: The local electric company was contacted about adding a safety device to the bagger doors. These devices were put on each door. With the door shut the bagger will remain operating. Once the wheel on the safety devise reaches a certain point, it will stop all mechanical/moving parts of the bagger. This prevent employees from accidently or deliberately opening the doors and entering the bagging machine.





Pre-fabricated underground duct banks were implemented to improve safety for this particular job task. Instead of workers assembling duct banks in a trench, pre-fab areas at a separate location are utilized to build and assemble the duct banks in a worker-friendly environment. Once completed, they are transported and set into position with minimal work required to tie-together. This process greatly reduces time spent working in a trench where greater risk potential exists. By assembling in pre-fab, ergonomic conditions are also improved opposed to assembling on the ground in a trench. Weather conditions are much better inside a pre-fab tent or building and access/ground conditions are optimal. Overall, the pre-fab duct banks eliminate many risk factors and great injury potential while resulting in the same product at completion.

Lifting hazard, back injury.

Photo of hazard may be inserted here



Following the successful implementation of the vacuum lift at our Eldora facility last year we followed up with a similar implementation for our lowa Falls facility. The vacuum lift picks up boxes of two 2 ½ gallon containers and stacks them on a pallet with minimal effort. The boxes will weight between 50 – 55 lbs per box. Very important safety factor with repetitive lifting, regardless of an employees age but especially important with an aging workforce.

Employees had to manually pick up a 60 lbs. (Tombstone) and transport it the fixture. Ergonomically designed handle to pull the Tombstone from the pallet on to a portable lift-table that will be used to raise the Tombstone into place.

Before After





Employees were tasked manually picking up a 75 lbs. steel plate and setting it into place to be welded. A design change was made to attach a small steel plate where a temporary swivel hook could be attached. The steel plate is now picked up by an overhead crane where the employee just needs to guide the plate into place for welding.

Before After



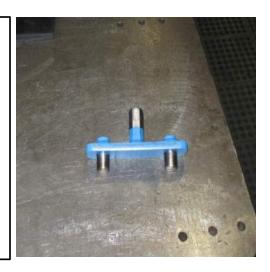


Employees would thread the piston onto the rod manually for 5" requiring repetitive motion of the wrist, elbow and shoulder.





A \$2.00 tool was manufacture d where a ¾" socket could be attached to use an air impact driver



Slip/trip over pipe placed directly in walking path.

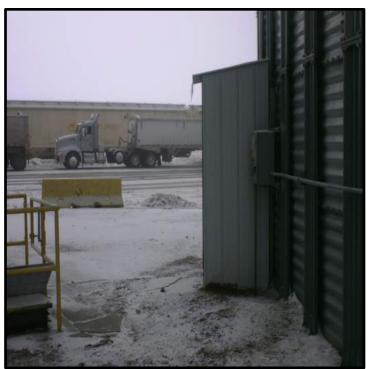




A walkway was fabricated to prevent people from having to step over the pipe. The walkway also directs or signals employees to cross over it at that point, versus stepping over the pipe. The pipe was also marked with orange X's and cones were placed in front of the pipe to alert people of the hazard.

•Hypothermia during hole watch when entering confined space. Fatigue due to elements may also be a hazard depending on wind speed and precipitation.





Wind shelters prevent the elements from directly coming into contact with the hole watch

Problem (Before)



Solution (After)





Forklifts are heavily used in our warehouse; however, when they are not in use they could be found in the way causing trip hazards or traffic accidents. As you can see in the picture they were "parked" where they were last used, most of the time in the middle of the product shelves. In the spirit of safety the Wire team painted parking spots to keep the forklifts and pallet riders out of the way and easy to locate. Other departments also noticed the improvement. For example, when a delivery of pipe comes in they were having to maneuver around the un-parked forklifts, now they find it much easier to unload and transport the pipe and solar products.

Before (Problem)



After (Solution)



Pedestrian traffic and forklift traffic are heavy at this crossing in our warehouse. The heavy traffic increases the likelihood of a dangerous accident. To improve the safety of all involved, we installed a "Rite Hite Lite." This product is one of a kind. We worked with a customer to produce this and put in our warehouse. This light notifies the other sides when there is traffic coming from other directions. In the picture there was traffic coming from the right, so the sign was lit on the left. When there is traffic coming from both/all directions, the sign lights up red to notify everyone to stop.

Accident Reporting

- In mid 2015, Windsor added an additional identifying report to help recognize and eliminate hazards that may lead to recordable injuries. A Potential Hazard Report was added as the new step.
- Windsor implemented a 3 step Incident Reporting Procedure (Forms included):
 - Potential Hazard: Report a potential hazard that is associated with a workplace condition or activity, which if left uncorrected, may result in a near miss or injury to employee.
 - Near Miss: Report is when incident actually occurred but did not become a recordable or have property damage.
 - Recordable Injury/Property Damage Action did occur that must be addressed and dealt with.

Potential Hazard/Near Miss Reports





Recordable Injury/Property Damage Report

Injury Property Damage (\$1000+)	NO:
(Plant or Equipment)	
	NDOWS & DOORS
RECORDABLE INJURY/PI	ROPERTY DAMAGE REPORT
	R COMPLETES
Date of Report:	D 17'
Employee Name:	
Regular Job Title: Length of Employment at Windsor:	Time in job classification:
Exact location in Department when injury occurred:	time in job olassitication;
DESCRIPTION:	
DESCRIPTION: DESCRIBE HOW THE ACCIDENT OCCURRED: What w	ns the employee doing when he/she was injured?
THE PARTY OF THE P	and allower
WHAT WERE THE UNSAFE ACTS?	WHAT WERE THE HAZARDOUS CONDITIONS?
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	
COULD THIS ACCIDENT HAPPEN AGAIN? OFTE Please explain:	N OCCASSIONALLY RARE
казе схрини.	
	Y SEVERE SERIOUS MINOR
Please explain:	
WAATOR BOWN IN WALKER	
CORRECTIVE ACTION	
HOW WILL WE PREVENT THIS ACCIDENT FROM HAI	PPENING AGAIN? ACTION TO BE TAKEN:
OLLOW UP DATE:	
OLLOW UP DATE:	
ACTION ALREADY TAKEN:	
ACTION ALREADY TAKEN: MEDICAL TREATMENT/RESTRICTIONS: (PL	
ACTION ALREADY TAKEN: MEDICAL TREATMENT/RESTRICTIONS: (PL JID THE EMPLOYEE RECEIVE MEDICAL TREAT	IMENT FIRST AID NONE
ACTION ALREADY TAKEN: MEDICAL TREATMENT/RESTRICTIONS: (PL JID THE EMPLOYEE RECEIVE MEDICAL TREAT	
ACTION ALREADY TAKEN: MEDICAL TREATMENT/RESTRICTIONS; (PL JID THE EMPLOYEE RECEIVE MEDICAL TREAT F MEDICAL TREATMENT, DID THE EMPLOYEE REC	TMENT FIRST AID NONE EIVE RESTRICTIONS TO DO HIS/HER JOB? YES NO
ACTION ALREADY TAKEN: MEDICAL TREATMENT/RESTRICTIONS: (PL MEDICAL TREATMENT, DID THE EMPLOYEE RECI F MEDICAL TREATMENT, DID THE EMPLOYEE RECI Slood Borne Report: Clean Up NeededYesNo	IMENT FIRST AID NONE EIVE RESTRICTIONS TO DO HIS/HER JOB? YES NO By Whom:
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Property Damage (\$1000+)	NO:
(Plant or Equipment)	
WINDSOR WII	NDOWS & DOORS
	ROPERTY DAMAGE REPORT
Date of Report:	IDUAL COMPLETES
Employee Name:	
ob Title:	Department:
Date of Accident:	Time of Accident:
Others Involved/Witnesses:	
	YOU WERE DOING BEFORE, DURING, AND AFTER THE
CCIDENT:	
WHAT PART OF YOUR BODY WAS INJURED? WAS	THERE ANY PROPERTY OR PRODUCT DAMAGE?
WHEN DID YOU REPORT IT AND TO WHOM?	
WHEN DID YOU REPORT IT AND TO WHOM?	
ND ANYONE ELSE SEE THIS ACCIDENT HAPPEN?	IF SO, WHO?
ND YOU GO TO THE DOCTOR? YES NO	
NID YOU RECEIVE RESTRICTIONS? IF SO, WHAT	ARE THEY?
OID YOU REPORT YOUR RESTRICTIONS TO YOUR	
VHY DO YOU THINK THIS ACCIDENT HAPPENED! IAPPENING AGAIN?	P WHAT DO YOU THINK CAN PREVENT IT FROM
his is a true and correct statement,	
imployee Signature:	DATE:
P/Personnel/Document/Safety/Workplace Safety 3 Step	_

2015 Footwear Policy for Glass Production

(Improved Personal Protective Equipment for Employees)

Footwear Policy for IG/ Glass Production was added in 2015. With the hazards of handling glass and knowing that employees wear cut resistant PPE, it was noted that the feet of the employees needed to be covered with more than a canvass tennis shoe. Hence, the new footwear policy for this department.



March 2012 Revised January 2015

Protective Footwear - IG Production/Maintenance/Shipping Departments

Protective footwear is mandatory for any employee who works in the IG Production, Maintenance, and Shipping Departments. This policy is meant to protect employees and prevent unnecessary injuries within this work area.

If there are other specific jobs/positions that are questionable, whether the protective footwear policy should apply, the decision will be made by the Human Resources Department to mandate or allow the reimbursement.

Maintenance/Shipping: The footwear needs to be a safety boot that has a protective reinforcement in the toes which protects the foot from falling objects or compression, usually combined with a mid sole plate to protect against punctures. The employee can purchase footwear (shoes or boots) with toe protection built into the boot.

IG Production: The footwear needs to be a heavy leather work shoe to protect the feet from potential lacerations. Footwear can be an oxford or boot style.

The employee will be granted a maximum \$100 yearly credit towards the purchase of protective footwear. The employee must bring the footwear and the receipt of purchase to Human Resource in order to be reimbursed.

The employee is only allowed reimbursement once per year.

Liz Mallaney Human Resource Manager Windsor, WDM IA

New Position – Safety Lead

- Effective February 2015, Windsor added a new position as Safety Lead. Position was created to elevate safety at Windsor Windows & Doors and work with department managers and employees on a daily basis with the idea of safe production in the forefront. The position creates presence with safety guidance and encouragement on the shop floor.
 - Job Description attached
 - Safety Lead is working towards the Safety Certification from Iowa Illinois Safety

Safety Lead Job Description



JOB DESCRIPTION

Windsor Windows & Doors 900 S.19th Street/2210 Stafford St. Ext. West Des Moines, IA 50265/Monroe NC 28110

Job Title: Safety/Training Lead

Department: Human Resources

Prepared by: HR Department

Status: Factory Hourly

Date effective: 01/01/2015

Date reviewed: 12/29/2014

Individual will work to elevate safety at Windsor Windows & Doors and work with department managers to update SOP's. their training for employees, maintaining any employee records and following up on new hires periodically to ensure they are being supported by management to succeed at their jobs. Individual will also support operations projects as needed that relate to employee safety, productivity, and quality.

Working Relationships:

Reports to (Job Title); Human Resource Manager and will work closely with Plant Manager, Maintenance, and Department Manager's.

Direct Communication with: All department employees, managers, coordinators, and vendors.

Primary Responsibilities and Frequency:

- · Lead by example with regards to safety and training in the workplace
- Key employee to enforce continuous improvement for Safety
- Manage compliance to safety policies established by the company.
- · Suggest necessary or relevant safety policies for approval; with an understanding of industrial guidelines needed for OSHA compliance.
- · Be pro-active with safety and training needs within the facilities.
- · Work directly with plant manager to insure 5S audits are completed in departments and that proper improvements are determined and follow action is taken.
- · Complete safety audits in both facilities within the designated time frames.
- · Approve new equipment for safety and confirm labeling and markings are good before equipment is used on shop floor. Further ensuring that suitable training has been provided for associates to run such equipment.
- . Be the lead for the safety committee and follow through on issues presented to the committee
- · Manage the success of the training initiative; ensuring SOP's and on the job training is kept up
- Coordinate and participate in safety training for employees
- · Participate in department start up meetings with a "presence for safety"
- · Coordinate and participate in providing feedback to manager's on non-compliance related to training activities and steps to be taken to correct compliance .
- Coordinate and complete safety updates as needed ex. SDS sheets, LOTO boards, etc.
- · Be responsible for upkeep of first aid cabinets, supplies, and fire extinguishers
- · Evaluate any safety incidents and use corrective action as needed
- Evaluate job positions and eliminate hazards (Job Safety Analysis)

- · Work with all employees to improve processes and eliminate waste
- · Evaluate daily issues, analyze information, and report any necessary findings
- Update and develop any spreadsheets and/or communications needed.
- · Assist with any other needs relating to the process control, training program and safety of the
- · Become a "trainer" with regards to in-house training, certifications, and licenses

Factory (dirt/dust, equipment hazard, temperature exposure, chemical exposure, and work pace/pressure); and will have access to office equipment

6:00 a.m. to 2:30 p.m., Monday - Friday

* These are the base shift hours and subject to change due to business conditions. Mandatory overtime will be on an as needed basis.

Equipment Used to Perform Job: INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

Computer, calculator, copies, fax, telephone, and radio, tape measure, line equipment, fork lift truck, small hand tools

Skills and Abilities Required to Perform Job:

- · Self starter, energetic, and compassionate about Safety
- . Good verbal communication and interpersonal skills presenting a positive
- representation of the company
- · Ability to drive and lead change
- · Attention to detail and knowledge of Windsor workings
- · Understand written or verbal instructions with the capability of accepting responsibility for interpretation and/or problem solving.
- Good analytical skills
- . Fluent with Microsoft Word and Excel
- Provide input and advise others as necessary to determine needs and/or problems and then develop solutions
- Able to follow direction and stay on task
- · Able to prioritize and complete projects on deadline

Minimum Requirements to Perform Job

Minimum Education Required:

High School/GED degree required AA Degree/ or equivalent experience preferred

Minimum Experience/Training Required:

Previous work related experience (OR)-Minimum of 12 months Windsor experience required.

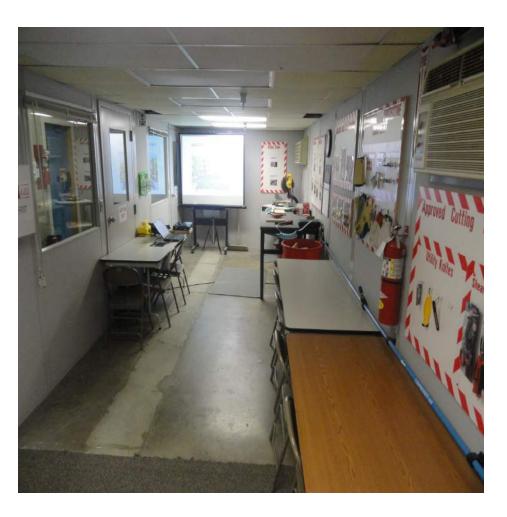
Physical Requirements and Visual Demands:

Frequent standing and walking. Occasional bending, turning and twisting at waist. Occasional sitting, climbing, and kneeling. Occasional lifting, carrying, and pushing/pulling (up to 50 lbs.). Occasional use of hearing. Use of computer and office equipment.

Visual requirements necessary are far, near, color, and field of vision, mid-range, and depth perception.

New Employee Safety Training

As Windsor grows, safety training was developed for all new employees with the Safety Lead. A safety training room has been created for this purpose. Employees use saws and power hand tools off the production lines. This gives employees one on one training emphasizing any hazards that are present.



New Equipment To Eliminate Hazard

New router was added to the ND Pro Vinyl Line to eliminate the use of razor blades for this process. Whenever possible, Windsor wants to eliminate the use of blades which causes lacerations which leads to recordable incidents.



Machine Guarding Improvements

Additional guarding added to eliminate opening where hands could enter.





Machine Guarding Improvements

Covered hole opening for additional guarding.





Planer Replacement



Old Planer



"Spiral tooling" in new planer reduced noise levels by over 30 dB. Parts require less manual sanding after going through new planer, saving stress to shoulders, hands, and wrists.

Electronic settings
make it easier and
faster to set up.
Faster feed rate
increases
productivity without
sacrificing employee
safety due to
rushing.



New Planer



Miter Saw Table Improvement



Before – Miter saw has short fence, requiring two to three employees to hold the long parts being cut. Potential for part to slip and cause cuts to employees. Accurate cuts were often difficult to attain.

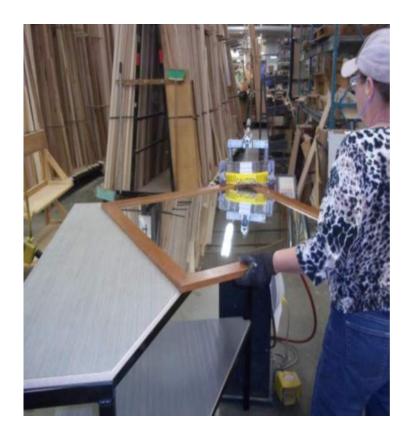


New fence is much longer and easier to hold parts against, eliminating the need for multiple employees to hold long parts for cutting. Provides more accurate cuts and is safer for employees.

Stapling Mirror Frame Corners



Old way was awkward and often required two employees because of little support for the piece. Required employee to sometimes get close to the point of operation.



New table (left) allows one employee to control the mirror and frame from a much more comfortable and stable position.

Spoil Board Containment



Spoil boards used on CNC routers were stored wherever there was room, causing housekeeping eyesore and potential tripping hazards or injuries from boards falling over or slipping down.



New containment racks keep spoil boards neatly stacked and protected against damage, as well as eliminating tripping hazards.

Unused Rail and Ramp Removed

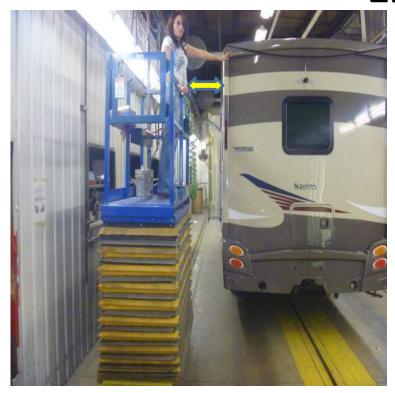


The floor rail had been unused for several years. A ramp had been built for transporting carts over the rail. This was a trip hazard and created limited access to the area.

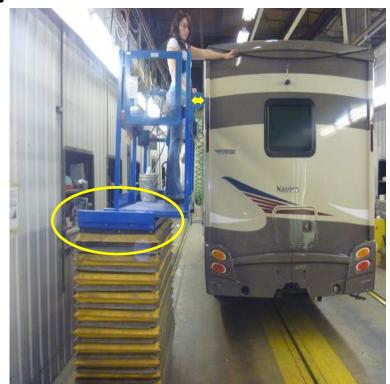


Removing the rail and ramp opened up the area, allowing better access and eliminating a trip hazard.

Retractable Platform on Scissors Lift



Scissors lift provided vertical height adjustment, but no lateral adjustment to get employees closer to their work, creating strains from reaching and applying force.



Adjustable platform now allows lateral movement to get employees closer to their work, relieving strains from reaching and using excessive force.

Eliminated Extension Ladder



16' foot extension ladder was used for getting samples from equalization tank in e-coat waste treatment process. Required climbing to top of tank with one hand while holding onto sampling tools with another.



Piping and valve were installed to allow samples to be taken at ground level, eliminating use of ladder.

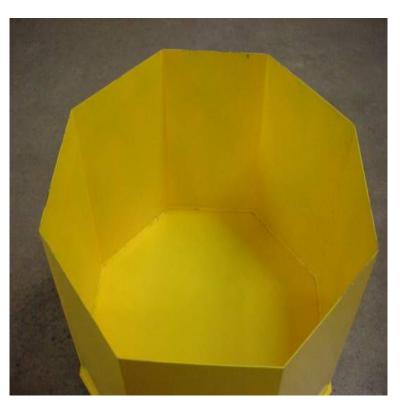
Sit/Stand Workstations Offer Relief from Sitting Throughout the Day in Office Environments





Sitting Standing

Steel Flammable Liquid Containment Carts Allow Mobility, Protect Drums from Damage, and Contain Leaks





Lifting device replaces manual lifting of shower stalls onto floor of motorhome. This was a two- to three-person operation. Now a one-person job with no lifting.





Caulk Gun Upgrade

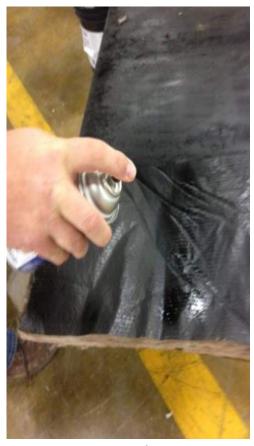


Old Way – Manual Caulk Gun strained hand, wrist and forearm. Made consistent bead difficult.



New Way – Battery-powered caulk gun eases stress, is easier to guide, and provides better quality bead.

Spray Can Handle/Trigger



Old way requires finger to push button of can to release contents. Material got on fingers and was difficult to control spray.





New trigger/handle allows full-hand pulling action and initiation of spray, making spraying easier and more accurate.

LP Tank Storage

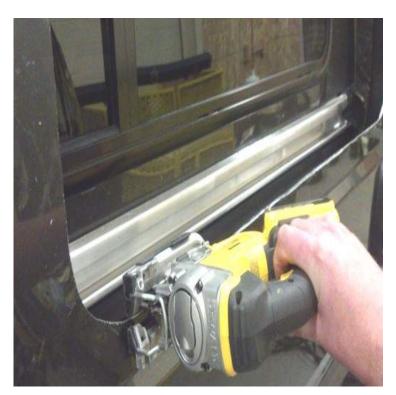


Old LP tank storage unit was damaged and difficult for employees to access.



New storage unit is easier to access and meets compliance standards.

Nibbler vs. Sawzall



Old tool for cutting out window openings on B-Van – models of motorhomes was a Sawzall-type tool which vibrated heavily, causing strains to hands, wrists, and arms. It was also very noisy and left jagged edges behind that posed cut hazards.



The new tool is a "nibbler" tool, which is much lighter, quieter, has much less vibration, and leaves a clean cut without jagged edges.

Roof Scaffolding Improvement



Old scaffolding had steep, overlapping steps and was difficult to maneuver.



New scaffolding has safer stairs, is lighter weight, is easier to maneuver, and gives employees better access to their work.

Manual Packing Line converted to a totally Robotic Auto Pack Packing Line



Before



Workers once packed chocolate bars by hand into cases. Several safety issues related to ergonomics caused injuries. Robotic machines were designed, built and installed to pack the chocolate bars utilizing robotics relieving workers the risk of wrist and joint injuries.

After



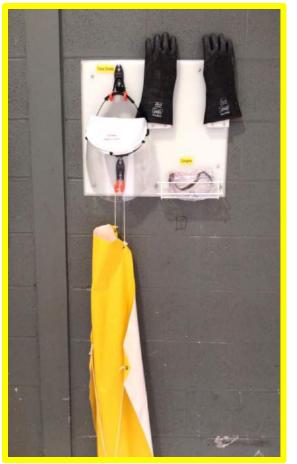
Lift Truck Safety Improvements

LED Tracking lights were installed to lift trucks to warn workers of approaching vehicles in the area





Required PPE's were miss placed at times, a shadow tool board was built to provide visual and proper storage of battery inspection tools



Improved Traffic Safety

Employees and Visitors park on the parking deck which holds 400 cars. At the bottom of the ramp from the parking deck, vehicles need to stop. The old stop sign was difficult to see. A new powerful LED stop sign was installed

supporting a huge safety improvement.





Hundreds of workers, contractors and visitors use the stairway to the parking deck. The stairs were worn out, lighting was poor and the walls needed to be painted. Aluminum extruded steps with built in slip resistant tread materials were installed, lighting was improved and the walls painted a brighter color.





Stairway Safety Improvements



After

Packaging Safety Improvements

WF World's Finest.

At times, packaging operators would need to clean packaging equipment. The glue heads where exposed and operators worked very close to them. To avoid contact and probable injuries, shields were fabricated and installed to cover the 350 degree glue heads protecting the operators.



