



## PPSA Quarterly Review

Pulp and Paper Safety Association (850) 584-1569

Website [www.ppsa.org](http://www.ppsa.org)

### Special Interest Articles:

- Chairman Letter
- PPSA 2010 Conference
- Member Quarterly Statistics
- Safety
- Ergonomics
- About Us

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Randy Burns, Temple-Inland Streetsboro, OH Converting Superintendent explains how the line of sight is impaired by the P.I.T mast

Everyone knows that P.I.T.S. (Powered Industrial Trucks) and pedestrians do not mix. To increase that awareness and the realities of driving a P.I.T. the Temple-Inland Streetsboro, Ohio plant decided to give every employee the experience of working on a P.I.T. A Clamp truck and a Forklift were parked at the employee entrance. When employees arrived at work they were greeted by the entire Leadership Team. Each Manager and Supervisor led an employee over to the vehicles and talked with the employee about the safety issues with P.I.T.S. Each employee then got on both of the P.I.T.S. The Managers/Supervisors explained how the P.I.T. operates then moved around the P.I.T to show how restricted the view is for the driver. In addition, each employee was asked to turn his or her head backwards to simulate how a P.I.T driver must face when moving backwards.

The employees were shocked! They had no idea how difficult it is to see a pedestrian. And the P.I.T.S did not have a "load" on them. Some of the comments given were, "I had no idea how hard it is to see someone and I'm not even moving. This gives me a whole new perspective of how I will look for and approach a truck." "Man, I wouldn't want to have to turn my head all day and try and drive backwards." "WOW, I can't see you [the Supervisor] at all!"

This experience has given each employee a firsthand understanding to the hazards of P.I.T.S operating in the facility. In the break room employees were talking with the P.I.T drivers with a greater respect for what they do. As the old saying goes...don't judge a man until you have walked in his shoes. Our employees now understand why they must constantly watch out for P.I.T.S and stay a clear distance away from them.

## A Letter from Our Chairman

February 2010



### **Current Activities & 2010 Focus**

Members, I'm sure that you will join me in giving a sigh of relief now that 2009 with all its difficulties is behind us. Improving the safety of employees, contractors and vendors in our industry is a challenging and rewarding endeavor. One made more difficult in turbulent economic times with the inherent distractions at the employee and business level. Let's now look forward to a brighter 2010 and our continued efforts to improve the PPSA as an organization that provides you our members safety support for your endeavors in safety and a good return on your membership investment.

#### **Finance:**

- Our finances remain solidly in the black, with a balance of \$110,000. As I mentioned in my last communication the Board has made the decision to hold the line on membership dues for 2010 at 2009 prices. This approach has met with support from member companies with initial results for 2010 being our best in some years with 166 members signed up to date.

#### **2010 Conference:**

- Our 2010 conference will be held in beautiful Charleston, SC. the week of June 6<sup>th</sup>, 2010, and program development is well underway. A "Program at a Glance" for the conference can be found on pages 4-5 of this issue. The conference will focus on a variety of industry related topics, including safety leadership, OSHA's new agenda, and combustible dust issues just to name a few. We look forward to seeing you all at the annual conference in Charleston for a fun and productive meeting.

#### **Statistical reporting:**

- Starting in 2010, the Board has instituted a change in reporting member site accident statistics. We will be moving from quarterly reporting of member individual site data to every six months (mid year and end of year). We will continue to provide company benchmark data for the same time frames. It is our intent to move the content of the Quarterly Report away from trailing indicator tracking and focus on accident prevention, information and recognition programs.
- We once again wish to remind you that if you have a safety success story or Safety Alert that you would like to submit for publication in a PPSA Quarterly Review, please feel free to email them to: tomwatson@templeinland.com.

#### **Upgrading the PPSA website:**

- Work on updating our website is also well underway. The new website allows for easy navigation and a new Members Only Section. Our estimated time of completion is by the end of the first quarter. We hope you will visit the site [www.ppsa.org](http://www.ppsa.org) often for valuable safety and training insight and to stay abreast of the current activities and focus of the PPSA.

#### **Make available training materials and seminars on safety topics of interest to our members at a minimal cost:**

- A reminder that we have entered into an agreement with Summit Training Source to provide safety training materials at a reduced price. Summit offers its extensive safety training product line to be sold and distributed through the PPSA. For example, if the list price for a Summit program is \$395, you will be able to purchase the same program through the PPSA web page at a discount price of **\$355.50**

#### **Identify and share solutions to those safety issues facing our industry and members:**

- Board members have identified management of "Combustible Dust" as our highest immediate issue for the industry. We are monitoring the activity of OSHA and the State of Georgia closely and will communicate important developments once they occur. When we are confident we can provide direction on compliance Brian Kendall and his team will coordinate educational seminars on this topic. If you have any suggestions for training and development opportunities that can help our industry please contact with Brian or myself.

I'd like to leave you with a thought for safety as we begin this New Year. "Let's all look in the mirror, what do we see? Are we ready to lead safety and inspire others to improve? The truth is that we can't inspire safety excellence if we are not inspired ourselves. The commitment starts with us, and becomes evident in what people see consistently in our actions." Let's make 2010 a banner year in safety.

**General Chairperson – PPSA, Chris Redfearn**



*PPSA has been a resource to the pulp, paper, converting, recycle and forest products industry since 1944.*

**Plan NOW to attend the 67<sup>th</sup> Annual Pulp & Paper Safety Association  
Safety & Health Conference at the Marriott Charleston  
Charleston, SC June 6<sup>th</sup> – 10<sup>th</sup>, 2010**

- Meet and make valuable safety contacts within Forest Products Industry
- Hear first hand from companies like yours with outstanding safety records
  - Find out what the latest OSHA activity and direction is
  - Learn new accident avoidance techniques
  - Learn about new industry specific training programs
- Find out what is on the cutting edge and currently available from safety suppliers
- Learn from both the positive and negative experiences of others in our industry

**Here are a few comments from attendees of the 2009 PPSA Conference:**

- *The content and speaker materials were excellent;*
- *I enjoyed the interaction and learning from industry peers; and*
- *Great subjects, smooth flow, great organization, excellent conference!*

At the **Marriott Charleston Hotel** you will enjoy beautiful, redesigned guest rooms and suites coupled with supreme service and sophistication. Spacious, stylish and alive with color and energy, all rooms feature high speed internet access. Enjoy a sensory dining experience at Saffire Charleston's Oven, serving innovative, American-fusion cuisine for breakfast, lunch and dinner. Visit Aqua Terrace, a rooftop lounge, offering cocktails with brilliant views of the Ashley River. Unwind in the landscaped courtyard or workout in the state of the art fitness center with a panoramic view of the outdoor pool and whirlpool spa.



*Marriott Charleston Hotel*



*Outdoor Pool and Patio*

Additional information and registration materials for this year's conference are available on the PPSA website [www.ppsa.org](http://www.ppsa.org). Look for the early registration discounts.



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**The 67<sup>th</sup> Annual Pulp & Paper Safety Association  
Safety & Health Conference at the Marriott Charleston  
Charleston, SC June 6<sup>th</sup> – 10<sup>th</sup>, 2010**

**“Program-At-A-Glance”**

**Saturday June 5<sup>th</sup>**

**4:00 – 6:00 p.m.:** Conference Registration Opens

**Sunday June 6<sup>th</sup>**

**7:00 a.m. – 2:00 p.m.:** Golf Outing

**2:00 – 7:00 p.m.:** Conference Registration

**5:00 – 6:30 p.m.:** The Vendor's Reception

**Monday June 7<sup>th</sup>**

**6:30 a.m. – 4:00 p.m.:** Conference Registration

**7:00 – 8:00 a.m.:** Breakfast

**8:00 – 8:10 a.m.:** Opening Day Welcome and Announcements

**8:10 - 8:30 a.m.:** OSHA Alliance Update presented by Ed Corlew, PPSA and Stan Lacey, AF&PA

**8:30 – 10:00 a.m.:** Keynote Address presented by Jeff Robinson

**10:00 – 10:15 a.m.:** Morning Break

**10:15 a.m. – 11:00 a.m.:** Successful Safety Committees/Task Teams by Ed Corlew, Mohawk Fine Papers

**11:00 a.m. – 12 noon:** Powered Industrial Truck Safety presented by David Hoover, President - Forklift Training Systems

**12 noon to 1:00 p.m.:** Lunch

**1:00 – 2:30 p.m.:** OSHA Update and National Emphasis Programs presented by Eric Hobbs, Michael Best & Friedrich LLP

**2:30 – 2:45 p.m.:** Afternoon Break

**2:45 – 4:15 p.m.:** Changes to the 2009 Edition of NFPA 70E and What They Mean to You

**4:15 – 4:30 p.m.:** Closing Day Comments

**4:30 – 8:30 p.m.:** Vendor Suites Open

**Tuesday June 8<sup>th</sup>**

**7:00 – 4:00 p.m.:** Conference Registration

**7:00 – 8:00 a.m.:** Breakfast

**8:00 – 8:10 a.m.:** Day 2 Announcements

**8:10 – 9:45 a.m.:** Equipment & Pre-Task Risk Assessments presented by Gregory K. Ellisor, Weyerhaeuser and David Kinsley, Rayonier

**9:45 – 10:45 a.m.:** Focused Safety Interventions presented by Chris Redfearn, Weyerhaeuser

**10:45 – 11:00 a.m.:** Morning Break

**11:00 – 12 noon:** Dealing with Unsafe but Accepted Practices

**12:00 noon to 1:00 p.m.:** Lunch

**1:00 – 2:30 p.m.:** Safety Leadership presented by Rodney Grieve, Branta Worldwide

**2:30 – 2:45 p.m.:** Afternoon Break

**2:45 – 3:45 p.m.:** How to Minimize Risk and Communicate the Cost to Management presented by Ben Warren, Applied Environmental Consulting

**3:45 – 4:15 p.m.:** Implementation of the Global Harmonization System (GHS) into the current HazCom Standard presented by Erik Conaway, Safetec

**4:15 – 4:30 p.m.:** Closing Day Comments

**4:30 – 8:30 p.m.:** Vendor Suites Open



**Wednesday June 9<sup>th</sup>**

**7:00 a.m. – 12 noon:** Conference Registration

**7:00 – 8:00 a.m.:** Breakfast

**8:00 – 8:05 a.m.:** Day 3 Announcements

**8:05 – 9:00 a.m.:** Combustible Dust & the LOTO  
Exception Update presented by Larry Halprin,  
Keller and Heckman LLP

**9:00 – 10:00 a.m.:** CalOSHA and Prop 65 Update  
presented by Stewart Holm, Georgia Pacific

**10:00 – 10:15 a.m.:** Morning Break

**10:15 – 11:45 a.m.:** White Liquor Tank Explosion  
presented by Kent Walker, Weyerhaeuser

**11:45 a.m.:** Box Lunch

**5:00 – 6:00 p.m.:** Cash Bar

**6:00 – 9:00 p.m.:** Awards Banquet



**We look forward to seeing you in beautiful Charleston, SC for some rest,  
relaxation, networking, and a great conference!!**



## Finally – An Effective Plug Valve Lockout!

Do-it-yourself no more. With Brady's new Plug Valve Lockout, you can easily secure manual plug valves to OSHA-compliant standards. Available in four sizes. The Plug Valve Lockout is an effective fit for any popular 1" to 6" diameter plug valves which represents 10% of the valves used in the industry.



**Pulp and Paper Assoc. Members:**  
**Request a Free Sample at [www.bradyid.com/ppsapromo](http://www.bradyid.com/ppsapromo)**

\*While supplies last.

To learn more about Brady's complete line of Lockout/Tagout solutions, visit [www.bradyid.com/lockout](http://www.bradyid.com/lockout).

## "How Do You Know YOUR Safety Program is working at home?"

By John Sunderland

You can use some of the safety points that we implement at work and check on your home/personal safety program. Here are a few questions to ponder? Some are a bit funny, but others can be very impacting.

1. Do you get assistance when lifting heavy objects?
2. Do you control all sources of energy before doing electrical/mechanical work?
3. Does your team talk out all of the safety issues before doing an unusual task?
4. Do you utilize PPE as suggested by manufacturer of the tool that you are using?
5. Do you keep a safety topic posted on the refrigerator?
6. Do you have an inspection program for your lawn mower, wood working tools, chain saw, etc?
7. Are your fire extinguishers and smoke alarms regularly inspected and in good working order?
8. Do you always use gloves when handling sharp, rough or toxic objects/material?
9. Do you follow all safety rules and practices while driving?
10. Have you given anyone special recognition for doing something safely?
11. Do you spend more time addressing your Total Incident Rate over improving your program?
12. Do you have emergency telephone numbers posted by your telephones?
13. Does your "team" hold pre-activity safety sessions?
14. Does your vehicle have a fire extinguisher and warning devices, such as reflectors?
15. Do you wear shorts and "flip flops" when weed whacking?

## 2009 Year End Safety Stats

**Change Notice:** In order to provide more focus on leading safety indicators and lessen the focus on trailing safety indicators, the PPSA Board has decided to gather site safety statistics on a semiannual rather than quarterly basis. Accordingly, the next location specific data collection of PPSA member facilities will be published in the 2010 2<sup>nd</sup> Quarterly Review.

Paper Mills #1			year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
AbitibiBowater	Catawba, SC	2,198,820	15	1	12	0	1.36
Blue Ridge Paper Prod.	Canton, NC	2,542,227	21	5	3	0	1.65
Domtar	Ashdown	2,166,933	18	10	8	0	1.75
Glatfelter	Ohio Operation, Chillicothe, OH	3,041,532	34	15	5	0	2.24
Glatfelter	Spring Grove Mill, PA	2,136,103	35	8	7	0	3.28
Meadwestvaco	Covington, VA	2,478,287	52	16	3	0	4.20
		<b>14,563,902</b>	<b>175</b>	<b>55</b>	<b>38</b>	<b>0</b>	
Weighted Average for Category							<b>2.4</b>

Paper Mills #2			year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Smurfit-Stone	Hodge, LA	1,147,793	0	0	0	0	0.00
Smurfit-Stone	Fernandina Beach, FL	1,119,516	4	3	0	1	0.71
Domtar	Plymouth, NC	1,117,018	4	2	0	0	0.72
Smurfit-Stone	West Point, VA	1,106,574	5	3	1	0	0.90
Smurfit-Stone	Florence, SC	1,007,585	5	1	3	0	0.99
Smurfit-Stone	Panama City, FL	1,060,272	6	2	2	0	1.13
Domtar	Espanola, ON	1,048,537	10	2	4	0	1.91
RockTenn	Demopolis, AL	1,030,745	10	3	3	0	1.94
Thilmany	Kaukauna, WI	1,438,629	18	2	8	0	2.50
Fraser Papers	East Paper, Madawaska, ME	1,880,047	35	21	9	0	3.72
AbitibiBowater	Calhoun, TN	NR					
		<b>11,956,716</b>	<b>97</b>	<b>39</b>	<b>30</b>	<b>1</b>	
Weighted Average for Category							<b>1.6</b>

NR = Not Reported

## 2009 Year End Safety Stats

Paper Mills #3		year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Weyerhaeuser	Columbus, MS	668,915	0	0	0	0	0.00
Smurfit-Stone	Coshocton, OH	452,593	4	2	2	0	0.00
Smurfit-Stone	Matane, QB	62,324	0	0	0	0	0.00
Weyerhaeuser	Norpac, Longview, WA	940,806	1	1	0	0	0.21
Domtar	Rothschild, WI	766,459	1	0	0	0	0.26
Georgia-Pacific	Brewton AL	984,552	2	1	0	0	0.41
Smurfit-Stone	La Tuque, QB	874,246	2	2	0	1	0.46
Domtar	Hawesville, KY	430,943	1	1	0	0	0.46
Packaging Corp. of America	Tomahawk, WI	825382	2	1	0	0	0.48
Domtar	Marlboro, Bennettsville, SC	652,032	2	2	0	0	0.61
Boise Packaging	DeRidder, LA	918,115	3	0	0	0	0.65
Mohawk Fine Papers	Cohoes Mill, NY	501,687	2	0	0	0	0.80
Domtar	Kingsport, TN	713,876	3	1	0	0	0.84
Smurfit-Stone	Hopewell, VA	630,646	3	2	2	0	0.95
Smurfit-Stone	Ontonagon, MI	206,375	1	0	0	0	0.97
Temple-Inland #386	New Johnsonville, TN	390,057	2	0	1	0	1.03
Boise, Inc.	Jackson, AL	982,420	6	0	0	0	1.22
Temple-Inland #390	Bogalusa, LA	936,185	6	3	0	0	1.28
Smurfit-Stone	Stevenson, AL	860,876	6	1	3	0	1.39
Weyerhaeuser	Longview, WA	943,288	7	4	0	0	1.48
Temple-Inland #393	Orange, TX	807,760	6	3	0	0	1.49
Domtar	Johnsonburg, PA	735,799	7	3	1	0	1.90
Temple-Inland #389	Rome	935,006	9	2	1	0	1.93
Smurfit-Stone	Missoula, MT	780,803	8	4	0	0	2.05
Mohawk Fine Papers	Waterford Mill, Waterford, NY	286,244	3	1	0	0	2.10
Mohawk Fine Papers	Beckett Mill, Hamilton, OH	273,325	3	0	0	0	2.20
Domtar	Nekoosa, WI	855,087	11	4	2	0	2.57
Green Bay Packaging	Arkansas Kraft, AR	754,497	10	4	3	0	2.65
Interstate Paper	Riceboro, GA	526,865	7	4	0	0	2.66
Domtar	Columbus, MS	447,089	6	2	2	0	2.68
New Page	Stevens Point, WI	587,078	9	1	2	0	3.07
Domtar	Port Huron, MI	509,861	11	2	2	0	4.31
Buckeye Mt. Holly	Mt. Holly, NC	229,725	6	2	4	0	5.22
		<b>21,470,916</b>	<b>150</b>	<b>53</b>	<b>25</b>	<b>1</b>	
Weighted Average for Category							<b>1.4</b>

NR = Not Reported



## 2009 Year End Safety Stats

100% Recycle Mills			year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Temple-Inland #391	Maysville, KY	229,580	0	0	0	0	0.00
Temple-Inland #392	Ontario, CA	192,300	0	0	0	0	0.00
Sonoco	Holyoke, MA	124,864	0	0	0	0	0.00
Sonoco	DePere, WI	119,982	0	0	0	0	0.00
Sonoco	Hutchinson, KS	242,805	1	1	0	0	0.82
SFK Pulp Recycling	Menominee, MI	205,869	1	0	0	0	0.97
Sonoco	Newport, TN	189,412	1	0	0	0	1.06
Temple-Inland #385	Newport, IN	291,782	2	0	0	0	1.37
Sonoco	Sumner, WA	122,584	1	1	0	0	1.63
Smurfit-Stone	Uncasville, CT	193,626	2	0	2	0	2.07
Sonoco	Richmond, VA	187,638	2	1	1	0	2.13
Smurfit-Stone	Seminole Mill, Jacksonville, FL	247,919	3	0	0	0	2.42
Smurfit-Stone - Seminole Mill	Jacksonville, FL	247,919	3	0	0	0	2.42
SFK Pulp Recycling	Fairmont, WV	237,139	3	0	2	0	2.53
Orchids Paper	Pryor, OK	613,464	8	5	0	0	2.61
Green Bay Packaging	Green Bay, WI	288,664	4	0	0	0	2.77
Sonoco	Menasha, WI	230,203	4	0	0	0	3.48
Sonoco	Hartsville, SC	947,213	17	2	0	0	3.59
Sonoco	City Of Industry, CA	104,709	2	1	0	0	3.82
Georgia-Pacific	Savannah River, Rincon, GA	NR					
		5,017,672	54	11	5	0	
Weighted Average for Category							2.2

Pulpmills			year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Weyerhaeuser	Flint River, GA	551,844	1	1	0	0	0.36
Domtar	Hawesville, KY	599,191	2	0	1	0	0.67
Weyerhaeuser	Grand Prairie, AB	582,124	2	2	0	0	0.69
Weyerhaeuser	New Bern, NC	576,522	2	1	0	0	0.69
Weyerhaeuser	Port Wentworth, WA	553,891	2	0	0	0	0.72
Domtar	Kamloops, BC	840,071	4	1	0	0	0.95
Rayonier	Jesup, GA	1,758,209	21	11	4	0	2.39
Domtar	Baileyville, ME	592,680	8	3	1	0	2.70
Buckeye Florida	Perry, FL	1,222,580	20	14	0	0	3.27
Rayonier	Fernandina Beach	659,251	11	1	4	0	3.34
Buckeye Technologies	Memphis, TN	293,230	9	3	3	0	6.14
		8,229,593	82	37	13	0	
Weighted Average for Category							2.0

NR = Not Reported

## 2009 Year End Safety Stats

Box Plants - with corrugator year-to-date			Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Temple-Inland #009	Streetsboro, OH	259,926	0	0	0	0	0.00
Temple-Inland #010	Orlando, FL	255,289	0	0	0	0	0.00
Temple-Inland #032	Hazleton, PA	226,884	0	0	0	0	0.00
Temple-Inland #072	Marion, OH	221,000	0	0	0	0	0.00
Temple-Inland #036	Petersburg, VA	213,946	0	0	0	0	0.00
Temple-Inland #048	Elgin, IL	185,179	0	0	0	0	0.00
Temple-Inland #038	Garden City, KS	180,107	0	0	0	0	0.00
Temple-Inland #151	Scranton, PA	79,755	0	0	0	0	0.00
Temple-Inland #031	Bell (Los Angeles, CA)	320,533	1	1	0	0	0.62
Temple-Inland #152	Binghamton, NY	305,673	1	0	0	0	0.65
Temple-Inland #068	Carol Stream, IL	256,060	1	0	1	0	0.78
Temple-Inland #022	St. Louis (Fenton), MO	251,667	1	0	0	0	0.79
Temple-Inland #034	Wheat Ridge, CO	240,218	1	0	1	0	0.83
Green Bay Packaging	El Paso, TX	231,220	1	1	0	0	0.86
Temple-Inland #280	Pakway Indianapolis, IN (Stout Field)	450,387	2	1	1	0	0.89
Temple-Inland #005	Evansville IN	211,938	1	1	0	0	0.94
Temple-Inland #018	Minden LA	206,494	1	1	0	0	0.97
Green Bay Packaging	Tulsa, OK	193,111	1	0	0	0	1.04
Temple-Inland #027	Crawfordsville, IN	370,909	2	0	1	0	1.08
Green Bay Packaging	DePere, WI	156,345	1	0	0	0	1.28
Temple-Inland #158	Warren County, NC	310,932	2	0	1	0	1.29
Temple-Inland #016	Carrollton (Dallas, TX)	267,420	2	1	0	0	1.50
Temple-Inland #171	Crockett-Sante Fe Springs	477,773	4	4	0	0	1.67
Temple-Inland #033	Ft. Smith AR	230,422	2	2	0	0	1.74
Temple-Inland #074	Phoenix, CA	229,733	2	2	0	0	1.74
Temple-Inland #077	Tampa, FL	212,561	2	0	0	0	1.88
Temple-Inland #076	San Antonio, TX	309,456	3	2	0	0	1.94
Temple-Inland #037	Lexington, SC	373,379	4	3	0	0	2.14
Temple-Inland #023	Spotswood, NJ	251,115	3	0	0	0	2.39
Green Bay Packaging	Twin Town, MN	239,466	3	1	0	0	2.51
Temple-Inland #020	Tracy, CA	427,011	6	0	4	0	2.81
Green Bay Packaging	Wausau, WI	354,534	5	1	2	0	2.82
Temple-Inland #002	Middletown OH	201,850	3	1	0	0	2.97
Green Bay Packaging	GB Shipping Cont., WI	573,444	9	2	2	0	3.14
Temple-Inland #067	Bogalusa	311,690	5	2	0	0	3.21
Green Bay Packaging	Cincinnati, OH	182,662	3	0	2	0	3.28
Temple-Inland #012	Biglerville PA	388,113	7	2	1	0	3.61
Temple-Inland #039	Kansas City, KS	200,501	4	0	1	0	3.99
Temple-Inland #029	Sante Fe Springs, CA	248,617	5	3	0	0	4.02
Temple-Inland #017	Northlake/Chicago, IL	215,506	5	0	1	0	4.64
Temple-Inland #042	Ontario, CA	205,937	5	4	0	0	4.86
Temple-Inland #070	Gilroy, CA Box Plant	306,471	8	5	1		5.22
Green Bay Packaging	Kalamazoo, MI	354,948	10	2	1	0	5.63
Green Bay Packaging	Baltimore, MD	189,179	6	2	3	0	6.34
Green Bay Packaging	Fremont, OH	230,251	8	1	2	0	6.95
Temple-Inland #019	Shakopee (Minneapolis, MN)	218,487	8	1	5	0	7.32
Green Bay Packaging	Ft. Worth, TX	244,549	12	2	8	0	9.81
		<b>12,572,648</b>	<b>150</b>	<b>48</b>	<b>38</b>	<b>0</b>	
<b>Weighted Average for Category</b>							<b>2.4</b>

NR = Not Reported

## 2009 Year End Safety Stats

Box Plants without a corrugator year-to-date			Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Temple-Inland #291	Mack Chicago, IL	216,578	0	0	0	0	0.00
Temple-Inland #287	Pakway Indianapolis, IN (Roosevelt)	176,206	0	0	0	0	0.00
Temple-Inland #157	Utica, NY	172,481	0	0	0	0	0.00
Temple-Inland #154	Madison, OH	134,523	0	0	0	0	0.00
Temple-Inland #172	Crockett-Sante Fe Springs	94,889	0	0	0	0	0.00
Temple-Inland #001	Milltown (was Middlesex), NJ	69,836	0	0	0	0	0.00
Temple-Inland #176	Bayline Sheet Plant	65,411	0	0	0	0	0.00
Temple-Inland #003	Ft. Smith, AR	47,438	0	0	0	0	0.00
Temple-Inland #043	Ashand City Sheet, TN	35,941	0	0	0	0	0.00
Temple-Inland #161	Atlanta Stock Box	7,070	0	0	0	0	0.00
Temple-Inland #155	Buffalo, NY	124,217	1	0	0	0	1.61
Temple-Inland #159	St. Anthony, IN	86,670	1	0	1	0	2.31
Temple-Inland #046	Elizabethton Sheet Plant, TN	171,457	2	0	0	0	2.33
Green Bay Packaging	Chickasha, OK	65,547	1	0	1	0	3.05
Temple-Inland #047	Littlestown, PA	51,809	1	0	0	0	3.86
Temple-Inland #156	Scotia, NY	44,131	1	0	0	0	4.53
Temple-Inland #170	Crockett-Buena Park, CA	140,715	4	2	1	0	5.69
		<b>1,704,919</b>	<b>11</b>	<b>2</b>	<b>3</b>	<b>0</b>	
Weighted Average for Category							<b>1.3</b>

Folding Carton year-to-date			Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Green Bay Packaging	Folding Carton, WI	218,995	8	1	4	0	7.31
		<b>218,995</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>0</b>	
Weighted Average for Category							<b>7.3</b>

Distribution Centers year-to-date			Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
MOHAWK FINE PAPERS INC.	Albany, NY	69,722	1	0	0	0	2.87

NR = Not Reported

## 2009 Year End Safety Stats

Sheeting & Sheet Feeder Plants      year-to-date			Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Temple-Inland #081	Midwest Sheets	206,715	0	0	0	0	0.00
Domtar	Indianapolis Converting, IN	197,903	0	0	0	0	0.00
Domtar	Cerritos, CA	148,763	0	0	0	0	0.00
Domtar	Rock Hill, SC	148,492	0	0	0	0	0.00
Domtar	DFW Converting, Irving, TX	127,218	0	0	0	0	0.00
Domtar	Brownsville Converting, TN	82,383	0	0	0	0	0.00
Domtar	DuBois, PA	161,338	1	1	0	0	1.24
Domtar	Washington Court House, OH	152,346	1	1	0	0	1.31
Domtar	Richfields Converting, Kingsport, TN	93,099	1	1	0	0	2.15
Domtar	Tatum, SC	88,692	1	1	0	0	2.25
Temple-Inland #082	Texas Sheets (San Antonio, TX)	151,856	2	0	0	0	2.63
Temple-Inland #079	Gateway Sheets - St. Louis, MO	150,360	2	0	0	0	2.66
Domtar	Langhorne, PA	144,466	2	1	1	0	2.77
Temple-Inland #078	Gilroy (Bay Sheets)	177,853	4	1	1	0	4.50
Boise, Inc.	Jackson, AL	263,600	6	3	2	0	4.55
Domtar	Owensboro, KY	129,870	4	1	0	0	6.16
Domtar	Addison, IL	120,790	4	1	1	0	6.62
		<b>2,545,744</b>	<b>28</b>	<b>11</b>	<b>5</b>	<b>0</b>	
Weighted Average for Category							<b>2.2</b>

Specialty Products      year-to-date			Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Weyerhaeuser	Columbus Modified Fiber, MS	199,228	0	0	0	0	0.00
Temple-Inland #292	Mack-Chicago- DEVCO	100,521	0	0	0	0	0.00
Temple-Inland #444	Kennett Square, Toughkenamon PA	67,235	0	0	0	0	0.00
Mohawk Fine Papers	Saybrook, Ashtabula, OH	193,863	1	0	0	0	1.03
Green Bay Packaging	Winchester, VA	150,469	1	0	1	0	1.33
Temple-Inland #026	Graphics Resource Center, Indianapolis, IN	164,721	2	0	1	0	2.43
Mohawk Fine Papers	SCC, Cohoes, NY	63,693	1	0	0	0	3.14
Green Bay Packaging	Green Bay, WI	518,398	10	1	6	0	3.86
		<b>1,458,128</b>	<b>15</b>	<b>1</b>	<b>8</b>	<b>0</b>	
Weighted Average for Category							<b>2.1</b>

NR = Not Reported



## 2009 Year End Safety Stats

Sawmills		year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities	
			Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
COMPANY	CITY/Location Name	Hours					
Temple-Inland #105	Diboll Lumber	346,175	0	0	0	0	0.00
Rayonier	Swainsboro, GA	200,358	0	0	0	0	0.00
Temple-Inland #131	Pineland Complex Services, TX	143,278	0	0	0	0	0.00
Temple-Inland #121	Pineland Lumber	501,948	2	0	1	0	0.80
Rayonier	Baxley, GA	228,628	1	0	0	0	0.87
Green Bay Packaging	Pincrest, AR	143,709	1	0	0	0	1.39
Temple-Inland #123	Southwest La - De Quincy	371,602	3	1	0	0	1.61
Temple-Inland #122	Rome Sawmill	348,478	4	0	1	0	2.30
Rayonier	Eatonton, GA	166,310	2	1	0	0	2.41
Temple-Inland #101	Buna Lumber, TX	81,476	2	2	0	0	4.91
Smurfit-Stone	Homerville, GA	NR					
		2,531,962	15	4	2	0	
Weighted Average for Category							1.2

NR = Not Reported

Woodlands		year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities	
			Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
COMPANY	CITY/Location Name	Hours					
Smurfit-Stone	Forest Resources, Fernandina Beach, FL	380,410	0	0	0	0	0.00
Temple-Inland	Wood Supply	121,574	1	0	0	0	1.65
Green Bay Packaging	Fiber Resources, AR	65,117	1	1	0	0	3.07
Temple-Inland	Forest Management	58,320	1	0	0	0	3.43
		625,421	3	1	0	0	
Weighted Average for Category							1.0

Wood Products		year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities	
			Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
COMPANY	CITY/Location Name	Hours					
Temple-Inland #968	Fredericksburg Gypsum	24,877	0	0	0	0	0.00
Temple-Inland #107	Del-Tin Fiber	238,361	1	1	0	0	0.84
Temple-Inland #108	Diboll Fiber Products	221,445	1	0	0	0	0.90
Temple-Inland #112	Hope	215,996	1	0	0	0	0.93
Temple-Inland #118	Monroeville	179,438	1	1	0	0	1.11
Temple-Inland #110	Fletcher Gypsum	250,654	2	0	0	0	1.60
Temple-Inland #115	Mt. Jewett MDF	244,278	2	1	0	0	1.64
Temple-Inland #106	Diboll Particleboard	207,241	2	0	0	0	1.93
Temple-Inland #124	Thomson	160,166	2	0	0	0	2.50
Temple-Inland# 104	Cumberland City Gypsum	228,106	3	1	0	0	2.63
Temple-Inland #114	McQueeney Gypsum	128,418	2	0	0	0	3.11
Temple-Inland #109	Fingerjointing	27,297	1	0	0	0	7.33
Temple-Inland #128	West Memphis Gypsum	75,696	3	0	1	0	7.93
		2,201,973	21	4	1	0	
Weighted Average for Category							1.9

## 2009 Year End Safety Stats

Recycle Collection Centers		year-to-date	Total OSHA Log	LWDC	RWDC	Fatalities	
COMPANY	CITY/Location Name	Hours	Cases (OSHA 300 log sum of col. G+H+I+J)	(OSHA 300 log col. H)	(OSHA log col. I)	(OSHA log col. G)	Total IR
Smurfit-Stone Recycling	Seattle	153,450	0	0	0	0	0.00
Smurfit-Stone Recycling	Oakland	116,587	0	0	0	0	0.00
Smurfit-Stone Recycling	Jacksonville South	102,123	0	0	0	0	0.00
Caraustar	Texarkana, TX	91,600	0	0	0	0	0.00
Smurfit-Stone Recycling	Columbus	88,492	0	0	0	0	0.00
Caraustar	Dalton, GA (incl. Chatanooga)	83,200	0	0	0	0	0.00
Smurfit-Stone Recycling	Jacksonville North	81,525	0	0	0	0	0.00
Smurfit-Stone Recycling	St. Charles	54,196	0	0	0	0	0.00
Smurfit-Stone Recycling	Ft Lauderdale	54,157	0	0	0	0	0.00
Caraustar	Cleveland, OH	52,500	0	0	0	0	0.00
Smurfit-Stone Recycling	Nashville	51,257	0	0	0	0	0.00
Caraustar	Hardeeville, SC	48,200	0	0	0	0	0.00
Smurfit-Stone Recycling	Kansas City	47,575	0	0	0	0	0.00
Caraustar	Doraville, GA	44,700	0	0	0	0	0.00
Smurfit-Stone Recycling	Philadelphia	43,172	0	0	0	0	0.00
Smurfit-Stone Recycling	Portland	38,931	0	0	0	0	0.00
Caraustar	Columbus	38,100	0	0	0	0	0.00
Smurfit-Stone Recycling	Louisville	36,511	0	0	0	0	0.00
Caraustar	Charlotte, NC	36,200	0	0	0	0	0.00
Smurfit-Stone Recycling	Orlando Taft	34,002	0	0	0	0	0.00
Smurfit-Stone Recycling	Augusta	28,648	0	0	0	0	0.00
Smurfit-Stone Recycling	Sacramento West	27,074	0	0	0	0	0.00
Smurfit-Stone Recycling	Orlando Sanford	26,675	0	0	0	0	0.00
Smurfit-Stone Recycling	Anchorage	21,492	0	0	0	0	0.00
Smurfit-Stone Recycling	Evansville	19,328	0	0	0	0	0.00
Smurfit-Stone Recycling	Fresno	18,100	0	0	0	0	0.00
Smurfit-Stone Recycling	Miami	6,914	0	0	0	0	0.00
Smurfit-Stone Recycling	Atlanta West	1,823	0	0	0	0	0.00
Smurfit-Stone Recycling	Torrance	177,195	1	0	0	0	1.13
Smurfit-Stone Recycling	San Jose	105,769	1	0	0	0	1.89
Sonoco	Richmond, VA	143,144	2	1	0	0	2.79
Smurfit-Stone Recycling	Sacramento East	53,227	1	0	0	0	3.76
Smurfit-Stone Recycling	St. Louis	95,715	2	0	0	0	4.18
Smurfit-Stone Recycling	Tampa	81,882	4	1	1	0	9.77
Smurfit-Stone Recycling	College Park	33,019	2	0	0	0	12.11
Smurfit-Stone Recycling	Southside Chicago	17,353	2	2	1	0	23.05
Smurfit-Stone Recycling	Bakersfield	9,656	2	0	0	0	41.43
		<b>2,163,492</b>	<b>17</b>	<b>4</b>	<b>2</b>	<b>0</b>	
<b>Weighted Average for Category</b>							<b>1.6</b>

NR = Not Reported



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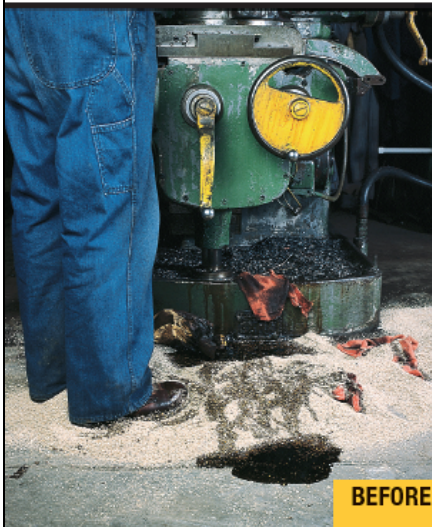
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**AFTER**

## Safety

### OSHA Combustible Dust Inspection

#### **SAFETY ALERT** **iLevel Lumber Technology**



#### DESCRIPTION OF INSPECTION:

On January 8, 2009 the Lumber operation had an OSHA inspection that focused on fine wood dust (combustible dust). The OSHA inspector, an industrial hygienist, inspected the following areas of the mill:

- Saw filing and saw filing shops
- Sawmill
- Boilers, kilns
- Planer
- Site residual systems

Mill leaders believe the inspection went well overall. In fact, the inspector commented that “we are the cleanest sawmill he has seen”. He was impressed with the mill’s attention to details in many areas, particularly signage and general housekeeping. Opportunities identified regarding wood dust accumulations include the following:

- Sawmill rafters, both upstairs and downstairs
- Accumulations of sawdust in the sawmill basement under the trimmer
- Dust on most walls throughout the sawmill
- Fine sawdust on the tops of the sawmill lunch room and hoist beams throughout the mill
- Large sawdust accumulation under the sawmill trimmer and adjacent area
- Dust accumulations on the walls inside the planer courtyard
- Large amounts of fine wood dust throughout the planer chipper building, both on the machines and on walls, beams, etc.
- Dust on top of the planer lunch room and office

The inspector collected two samples of fine wood dust in the mill. One sample came from the rafters and top of the upstairs sawmill lunch room, and the other from the top of the planer lunch room. He took these samples to test the composition and explosion properties of the dust.

During the closing meeting, the OSHA inspector did not issue or indicate any specific citations; however, he stated that the above-listed areas need to be addressed as wood dust accumulations present a potential explosion and fire hazard.



## PITS & PEDS



*Safety Article: by Tom Watson, Safety Manager*

OK, I admit I was trying to catch your eye with a catchy title. I was hoping you would look at it and ask, "What in the world are PITS and PED's?" Quite simply, they are acronyms. "P.I.T." stands for Powered Industrial Trucks and "P.E.D." for Pedestrians.

The Powered Industrial Truck is used to transport materials in virtually all facets of industry. It is estimated there are over 850,000 lift trucks in use by US industry alone. It is a marvel of engineering because it is small enough to maneuver into tight spaces such as truck trailer and rail cars yet heavy enough to lift goods, and in our case, paper rolls weighing thousands of pounds up to 20 feet in the air.



Though it steers, accelerates and brakes much like a common automobile, its weight, tight turning radius and maneuverability makes it decidedly different. Because of the extreme weights involved, when a lift truck hits an object or a person, severe damage is usually the result. Unlike the automobile, the lift truck must often be driven in reverse as the overhead protective cage; lifting rails and the load being carried typically obscure the vision of the driver during forward motion. Even with no load, the heavy mechanical parts needed to make this marvel work obscure up to 1/3 of the vision field when moving forward. Remember, even when there is no load, the lift truck driver may not be able to see you!

*"I Can't See You!"*

A government survey estimated that almost 35,000 injuries each year occur from lift trucks. Unfortunately, at the end of 2007, a fatal injury occurred to a Temple-Inland employee as a result of an impact with a lift truck. The types of property damage and personal injury accident which occur with lift trucks can be summarized as follows:

- **Turnover**
- **Driving Off Dock**
- **Striking Objects**
- **Premature Departure**
- **Striking Pedestrians**

As the title above suggests, this article will focus on the last classification of accidents and some extraordinary measures that several of our facilities are taking to reduce this risk to Temple-Inland employees. While all TIN locations train personnel who operate lift trucks in accordance with OSHA guidelines, two Corrugated Packaging Group Region VPs have led the way by insisting on rules in their operations which exceed OSHA requirements.

OSHA rules allow that lift trucks can remain in the on position providing the load is set to the floor, the parking brake is applied and the operator remains in line of sight and within 25 feet of the vehicle. Chuck Holland, VP Specialty Region, and Steve Folan, VP, Midwest Region Packaging plants have both instituted strict rules exceeding OSHA requirements for their lift truck operators.

Their policies consist of:

- Each certified PIT operator having their own unique key \* *(Some Specialty Plants even have sophisticated electronic identification "fobs" which identify the driver and provide additional security and surveillance assuring only a qualified operator is on the equipment.)*
- Operators are required to have their assigned key on their person whenever they are not operating their lift-truck
- Operators carry their license with them at all times.
- Drivers who leave their key in a lift-truck receive severe discipline, normally resulting in termination of employment.
- Non-licensed employees who drive a lift-truck are subject to severe discipline normally leading to termination of employment.

In addition to the strict policy requirements above, the Specialty Region developed supplemental training which focused on the proper manner for PED's (Pedestrians) to approach and work around PIT's (Powered Industrial Trucks). A special PowerPoint presentation\* was developed and management implemented the program in 2008. In order to assure the training was taken seriously, VP Chuck Holland and Region HR Manager Steve Westby took the extraordinary steps of visiting each plant in their Region and personally reviewed the training rules and highlights with all employees.



Following are highlights of the “learnings” gathered by the Specialty Management from the special PIT sessions which comprise the basic elements of the PITs-N-PEDs training:

- **Nobody has the right of way!** – When someone thinks they have the right of way, safety is diminished.
- Establish designated walk ways and allow NO SHORTCUTS!
- Install barriers where doors allow entry into a potential lift truck path. It has been found that a simple rail caused employees to turn and scan the path of a potential lift truck as well as provide a barrier to keep lift truck drivers a safe distance from the door.
- Visitors must have a plant escort. Every three years, lift truck training will be provided by an outside service to assure the internal plant trainer is kept updated on training trends and issues.
- Specific rules apply when pedestrians are in proximity to moving lift trucks or pedestrians wish to talk with lift truck drivers. Key points are, do not approach a lift truck driver when he/she is involved in a lifting task; make eye contact with the driver and do not approach until motioned to do so; approach the driver only after he/she has lowered the load or carriage to the floor, turned off the truck and motioned for you to approach; after talking with a lift truck driver, assure there are no other lift truck passing by and step away from the truck and proceed with caution before the lift truck driver restarts his vehicle.
- Pedestrians are banned from roll stock areas unless they have special permission and roll stock drivers receive advance notice of the pedestrian visit.
- Roll stock storage is limited to one roll in height on the corners of stacks in order to facilitate the view of drivers and pedestrians.
- Convex mirrors are used at all blind corners.

Safety is a core value in the company and paying attention to PIT's & PED's is one area that all Temple-Inland employees who work at or visit manufacturing facilities must remain aware of if we, as a company, desire to pursue safety excellence.

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**Safety Alert****Park on Level Floor, Ensure Parking Brake Adjusted to Fully Engage****Damaged Door****Damaged Wall**

**INCIDENT:** Clamp truck on the dock ramp. The parking brake on, but not fully engaged. The employee proceeded to open bay door to drive outside to fill the clamp truck up. When employee started to open door, clamp truck rolled down ramp, pinning the employee up against the door. The employee suffered a broken toe & contusions to the left foot & ankle. Property damage is estimated at \$8,000 and medical bills are yet to be determined. The injury & damage could have much worse!

**LESSONS:** Park clamp trucks on a flat surface when possible. Activate brake, ensure it fully engages, otherwise adjust/tighten parking brake by turning handle until firmly engages. This is a pre-use inspection item on each shift; once brake is engaged, test by slightly pressing accelerator to see if brake holds firmly.



**Adjust parking brake by turning top of lever until level pulls back with firm resistance.**

## Fall Protection – Fixed Ladders

By John Sunderland

As safety professionals we often have to weigh in on the subject of fixed ladders. If a fixed ladder is the only good alternative for getting to where workers need to go, we can turn to the OSHA 29CFR1910.27 standard to get all the details on how they should look. Team that up with some good engineering and vendor support and workers can get to climbing!

The problem is that they are intended for infrequent use and probably not the best for climbing in the dark. Getting up one is not for small people, large people, tired people, or people with a bunch of stuff to take with them! Fixed ladders are frequently overlooked when inspections of the worksite occur, particularly with regard to fall hazards along the way and from the top access.

It seems the issues often are: 1) how often will the ladder be used and 2) what will it be used for. Making frequent trips up and down a fixed ladder will eventually result in a slip, fall or dropping things over-the-side.

Economic times require us to pay extra attention to expenditures and we can not fix everything at once. Even so, consider making an audit of your site and finding the “bad boys” i.e. the ladders that look the worst, have the most traffic, etc. and put them on your “list”



One location decided to use a program for finding the places that have the most potential for an injury and added this cooling tower to their list.

As they moved down the priority list, they got to the fixed ladder that you can see on the left side and back of the tower. Since they found that workers were frequently doing maintenance on the gear boxes and fan motors at the top of the tower, a team worked on the improvement and a stairway was added.

This provides a good reminder that we can get in the habit of overlooking every day issues, but can find good solutions when we set our mind to it.

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01/09-01/10



## Eye on Ergonomics

### New Year's Resolutions

#### Pillar #1 – Early Intervention

- In business, we do performance reviews, business reviews, project reviews. They help us identify strengths and weaknesses and help us understand what we need to do to improve.
- For January, we suggest that you do a quick 2009 4 Pillar Ergonomic Review.
- Each pillar is a founding principle of Musculoskeletal Injury (MSI) Prevention. Score yourself and try to figure out what you need to do in 2009 to end it better than it started.
- The **first pillar** of preventing MSI is identifying and managing discomfort **EARLY** – before symptoms become constant.
- Take a second and score yourself on the scale at the bottom of the page.
- If you have symptoms, do you know what do you need to do make them go away?
- Do you want to end 2009 in less pain than you are in now?
- Do you know what to do and who to contact? Within your company, start with your supervisor, HR, or a safety representative.
- If you have had symptoms for a while, have you discussed it with your health care professionals? When do you plan to?
- Have you ever put your hand up to see what resources your company will provide to help you?
- If you don't know why you have symptoms or what to do about them, what do you expect will happen to them in 2009? Where do you think you will end up on the scale below at the end of 2009? Do you want to do better? What do you need to do?



Symptoms occur <b>DAILY AND</b> discomfort is high to <b>EXTREME</b>		Symptoms occur at least 1/week AND/OR are 'moderate'				No symptoms, discomfort, or pain			
1	2	3	4	5	6	7	8	9	10

For additional tips and information on *Industrial Toolbox Talks* click on the following link:

[Take Responsibility \(http://ergorisk.com/index.php?option=com\\_content&task=category&sectionid=1&id=26&Itemid=54\)](http://ergorisk.com/index.php?option=com_content&task=category&sectionid=1&id=26&Itemid=54)

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## Office of Health, Safety and Security Safety Advisory



### Leaking Acetylene Cylinder Shutoff Valves

2010-02

January 2010

#### PURPOSE

This Safety Advisory is issued to warn sites about leaking shutoff valves on acetylene cylinders. Acetylene ( $C_2H_2$ ) is extremely dangerous because it is easily ignited and burns at a very fast rate.

#### BACKGROUND

On January 11, 2010, while cutting rebar at the Savannah River Salt Waste Processing Facility (SWPF) with an acetylene torch, a small fire (3-inch flame) occurred at the cylinder shutoff valve. Although the acetylene rig was covered in fire retardant blankets, ricocheting sparks ignited the gas underneath the blankets. A fire watch extinguished the fire. Investigators determined that the cylinder shutoff valve was leaking at the valve stem when the valve was open to allow gas flow to the regulator.

#### DISCUSSION

Following the determination that the cylinder shutoff valve was leaking, an extent of condition inspection was conducted on acetylene cylinders at the SWPF. Five out of eight cylinders were found to be leaking in the same location just below the top nut of the shutoff valve. The leaks occurred only when the valves were open. Each of the leaking cylinders had a shutoff valve with a double-nut configuration. Figure 1 shows a leaking shutoff valve that is similar to the one that was involved in the fire. The acetylene cylinders that did not leak used a shutoff valve with a single-nut configuration (figure 2).

The leaking cylinders were all removed by the gas vendor. Three days later, the vendor

provided seven new cylinders and three of them leaked at the same location. Each leaking cylinder was equipped with a double-nut shutoff valve. The gas vendor is conducting an investigation of the leaking valves.



Figure 1. Leaking shutoff with a double-nut configuration

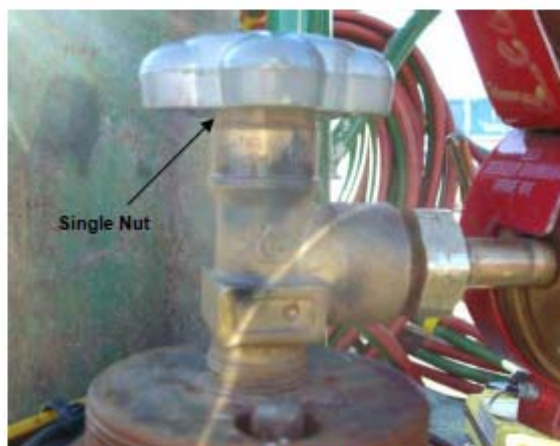


Figure 2. A non-leaking shutoff valve with a single-nut configuration



There are three different shutoff valves associated with the leaking cylinders. The gas vendor provided the following make and model numbers:

- Superior VSC CGA510
- Sherwood S-13 CGA510
- Sherwood TV CGA510

#### ACTIONS

Because acetylene is widely used throughout the DOE Complex for oxyacetylene cutting, heat treating, and welding, sites should check to see if they have any acetylene cylinders that use a shutoff valve designed with a double nut at the valve stem seal. Valves should be checked for leaks. If the leaks can not be stopped, the cylinders should be returned to the supplier.

#### ACETYLENE SAFETY PRACTICES

- Always store and use acetylene cylinders in an upright position to prevent the loss of acetone, which reduces the ability to hold dissolved acetylene.
- Always soap-test fittings and connections for leaks before placing the acetylene equipment in service. Never tighten fittings under pressure.
- Move leaking acetylene cylinders to an open area and tag them indicating the danger. Never attempt to stop a fuse plug leak. Notify your supplier immediately.
- Small fires at fitting connections can effectively be extinguished by applying a wet rag or similar types of material. In most cases, it is best to allow a large fire to burn itself out.
- Keep valves closed when cylinders are not in service or empty. Close the cylinder shutoff valve first and bleed the pressure off the regulator and torch equipment.

Keep cylinder caps on the cylinders when in storage or being moved.

- Keep cylinders away from sources of heat. Cylinders are not designed for temperatures in excess of 125°F.
- Always use regulators and pressure relief devices when connecting cylinders to circuits having lower pressure service ratings.
- Always store flammable gas cylinders separate from oxygen and other oxidizing gas cylinders.
- Do not use acetylene at pressures above 15 psig, the pressure where decomposition can begin, to avoid explosion and fire hazard.
- Do not handle cylinders roughly or carelessly to prevent damage to the cylinder or the filler.

#### ADDITIONAL SOURCES OF INFORMATION

[OE Summary 2004-09](#): The last article in this OE Summary, "Take Steps to Prevent Acetylene Leaks," discusses a similar event that occurred at the Idaho National Laboratory, in which a small flame was observed originating from the valve stem packing nut of an acetylene cylinder shutoff valve.

Questions regarding this Safety Advisory can be directed to Glenn Searfoss (HS-32) at (301) 903-8085 or e-mail [glenn.searfoss@hq.doe.gov](mailto:glenn.searfoss@hq.doe.gov).

Signed by

William H. Roege  
Director  
Office of Corporate Safety Analysis





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