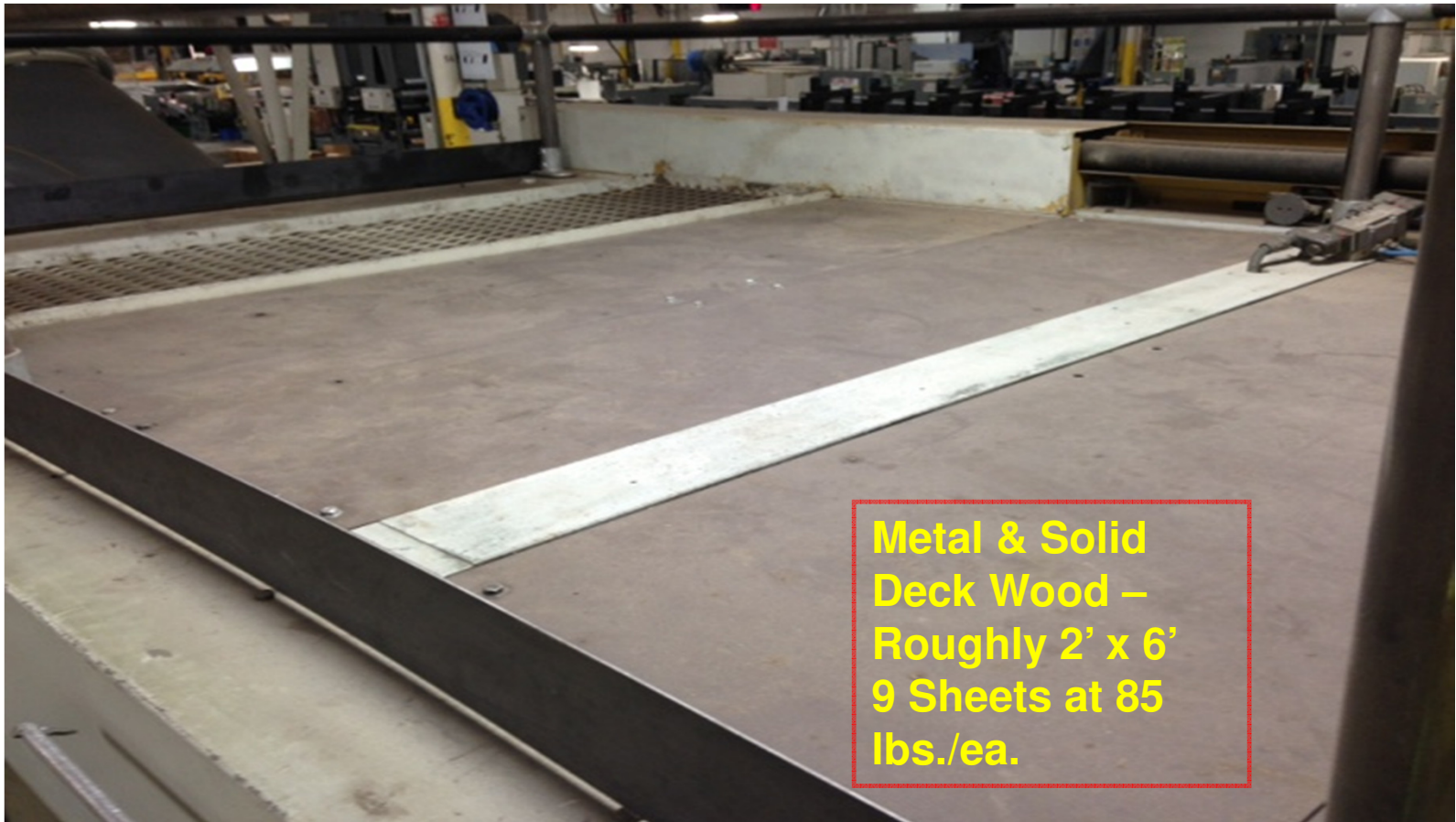


Cutter Lighting - Innovation



[Old Cutter Roof]



**Metal & Solid
Deck Wood –
Roughly 2' x 6'
9 Sheets at 85
lbs./ea.**

[Issues]

- Creates a Dark Environment
 - Bumps, Scrapes, Cuts Potential
 - 35 Near Misses Reported
- Panels are Heavy – Strains/Sprains
 - Overall – When employees are performing tasks with heavy objects and inside dark equipment – SAFETY becomes compromised.

[Employee Engaged Team:]



Curt Avicola – Team Leader

Members – John Lunceford, Kevin Gilmore, TJ Turner, Daniel Carlin, Brandon Stidham

DEC (Daily Equipment Care) Team Project Goal

- Reduce RISK Factor by 50%
- Replace Top Covers with Lighter Material
- Purchase Better Lights Inside Machine
- Benefits:
 - Less weight than OEM covers
 - More visibility inside machines
 - Allows Operators to see better
 - Reduces Risk – No Injuries!

Hazard Recognition Analysis:

Hazard Risk Assessment Worksheet (HRA)												
Facility / Plant : Joplin Folding							Team Members:				Date:	
WO #:	Project Name: Cutter Lighting Improvement						Curt A., John L., Kevin G., Daniel C., Jason W., T.J. Turner, Brandon S.			5/24/2014		
		Risk Assessment					Action Results					
		A	B	C	A x B x C	R a n k i n g						D x E x F
		Severity of Potential Incident	Frequency of Exposure	Likelihood of Occurrence			D	E	F			
		Death	5 At all times	5 Highly Likely			5	Death	5 At all times	5 Highly Likely	5	
		Disabling	4 Once / Hour	4 Probable			4	Disabling	4 Once / Hour	4 Probable	4	
		Lost Time	3 Once / Day	3 Likely			3	Lost Time	3 Once / Day	3 Likely	3	
		Recordable	2 Once / Week	2 Unlikely	2	Recordable	2 Once / Week	2 Unlikely	2			
Action or Condition	Hazard(s) Identified	First Aid	1 Once / Month	1 Highly Unlikely	1	Risk Factor	Recommended Countermeasure	First Aid	1 Once / Month	1 Highly Unlikely	1	Result Risk Factor
1	Pulling Parts off Machine	Strain/Sprain	2	2	5	20	3Improve Lighting	1	2	2		4
2	Lifting Guards	Strain/Sprain/Cuts	3	2	5	30	2Use Fiberglass Roof Decking	1	2	1		2
3	Using Hand Tools	Striking Against	2	5	5	50	1Add Lexan to roof	1	2	1		2
4	Using Power Tools	Striking Against	2	5	5	50	1Add Lexan to roof	1	2	1		2
5						0						0
6						0						0
7						0						0
8						0						0
9						0						0
10						0						0
11						0						0
12												
					Highest	50						
					Reduced to	4						
					Risk Reduction %	92%						

[Stripper Section - Before]

- Reaching
- Pulling
- Pinching/Gripping
- Turning Wrenches

ALL IN THE DARK!!



[Stripper Section - After]

- Reaching
- Pulling
- Pinching/Gripping
- Work in General

“WOW, I CAN SEE!!



[Blanker Section - Before]

- Reaching
- Pulling
- Pinching/Gripping
- Work in General

Darkness is Evil!



[Blanker Section - After]

- Reaching
- Pulling
- Pinching/Gripping
- Work in General

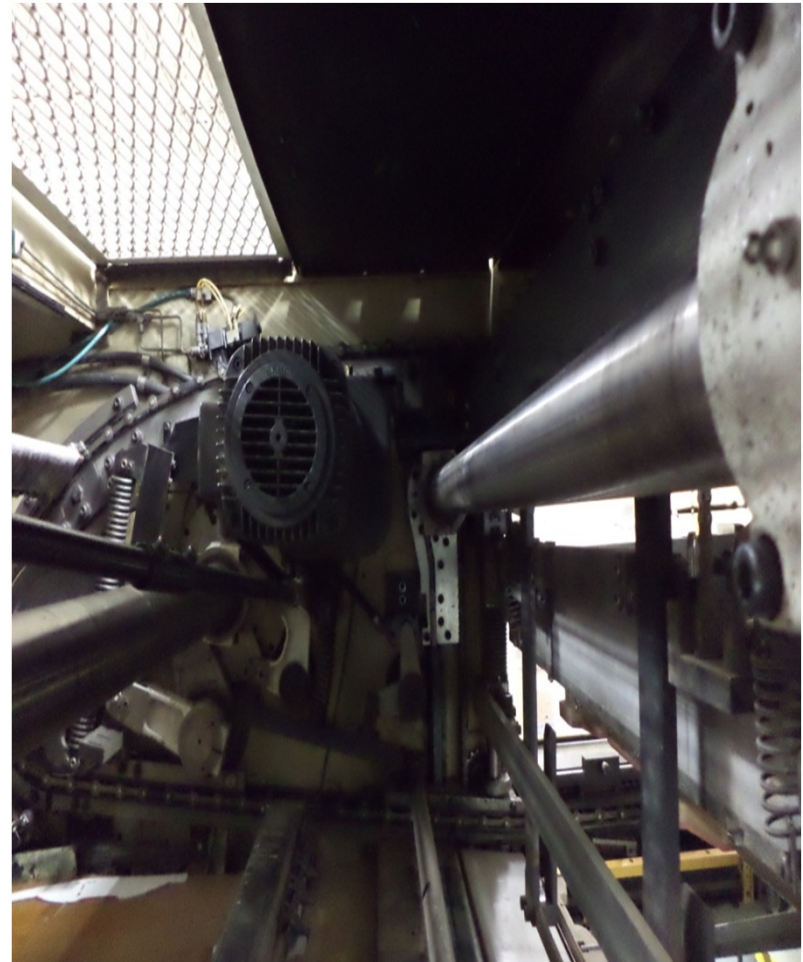
Light is Good!



[Scrap Delivery Section - Before]

- Reaching
- Pulling
- Pinching/Gripping
- Work in General

This area wasn't as bad, but still dark.



[Scrap Delivery Section - After]

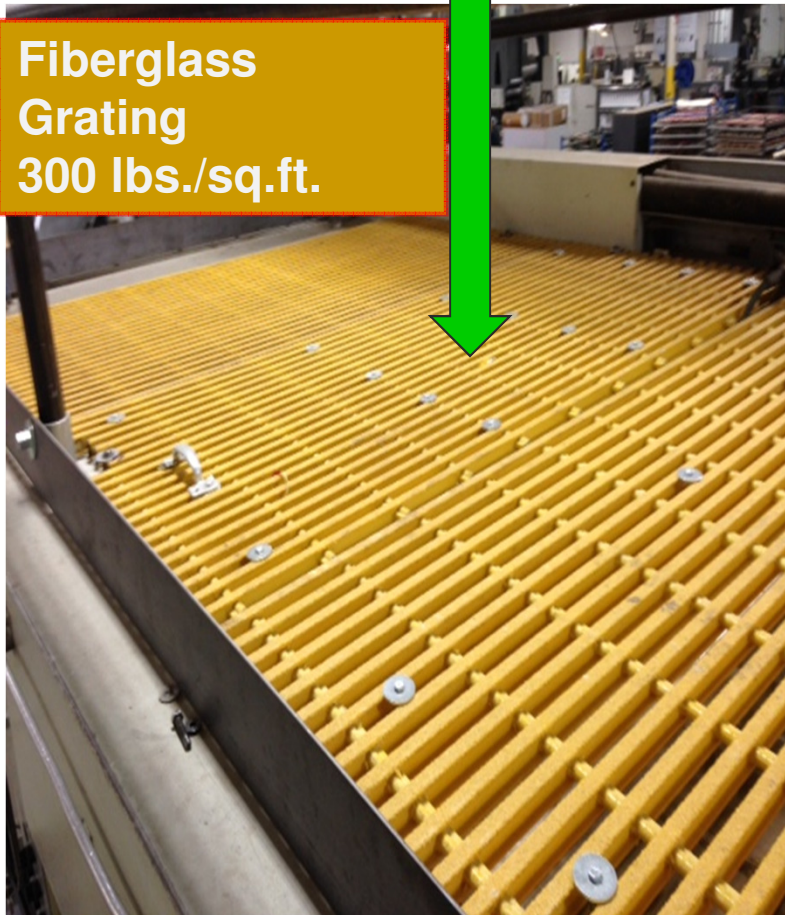
- Reaching
- Pulling
- Pinching/Gripping
- Work in General

SO MUCH
BETTER...and
SAFER!!



[Innovative & Creative:]

**Fiberglass
Grating
300 lbs./sq.ft.**





**Lexan Under
Grating for More
Light – No need
to purchase
lights inside!**



[Material Used]

- 4 sheets of 300 lb./sq.ft. Fiberglass Grating 3'x6'x1" Model # 6228T42 cost - \$50.60 per ft. – McMaster Carr
- 3 sheets Lexan 4'x8'x1/8" \$ 90.00 per sheet
- Existing Plant Lights over Cutters – No lights purchased inside machine!

[HRA Summary:]

Safety Hazard Reduction Analysis Project		
BEFORE		AFTER
		
OPPORTUNITY (RISK): 35 Near Misses reported between January 1, 2014 and January 30, 2015. Employees can't see very good inside the Bobst Cutters due to LOTO also shutting down lighting inside the machine. Too many close calls with scrapes, bruises, etc.		PATH FORWARD / CONTROLS 1 Complete 1238 Cutter, then leverage to 1236 and 1237 within 2 weeks. 2 Check new roofing material during weekly PM's. 3 Leverage to all other facilities and machines with similar roofing.
RISK REDUCTION RESULT:		Risk Reduction: 92%
Risk Before Project	50	
Risk After Project	4	

Innovation Results:

Near Misses = 35

Initial Risk Score = 50

After Risk Score = 4

RISK REDUCTION OF 92%

AVERAGE COST OF MATERIAL = \$1,210

AVERAGE COST OF STITCHES = \$500

35 NM/Close Calls x \$500 = \$17,500

OVERALL COST TO BUILD = \$3,630

COST AVOIDANCE = \$13,870

[Innovation Summary:]



Achieved by:
**ENGAGED
EMPLOYEES!!**