Standard Work & Daily Accountability

Situation

- Company Largest Customer is Unhappy
- CEO has been summoned to a meeting
- Service Rate is 5 points from acceptable level
- Safety Performance is out of control over 18 TIR
- Quality issues abound
- Leadership expressed why we in Retail Business
- Everyone has an opinion and suggestions
- Vendors are not good business partners
- Morale is low, conflicts are everywhere

KPIs Retail Supply Chain

	2007	2008	2009	2010	2011	
Environmental Health & Safety	18	7	5	4	1	
Lost Time	2	0	2	0	0	
Quality T1	89%	96%	96.79%	97%	98.3%	
Service Rate	94.6	99.4	99.6	99.8	99.4	
Lead Time Days	5.6	3.1	3.00	2.56	2.6	
Supply Chain Cost as Percent of Sales	+4% YOY	-6% YOY	-1.5% YOY Economy Crash	+1.2% YOY	4% YOY	
Schedule Att.	79%	84%	88%	87%	92%	
Direct Labor Efficiency	63%	83%	115%	*114%	120%	
Untime	36%	71%	83%	80%	85%	

What to do? Where to start?



Contents

- Situation
- Leadership Standard Work
- Visual Management
- Daily Management/Accountability
- KPI
- Q&A

Four key ingredients

Leadership Standard Work

- o Running the business
- Improving the business
- o What we are going to do & NOT do!

Visual Controls

At-a-glance process status

Daily Accountability

- Tiered meetings
- o Gemba Walks

Discipline

- Walking the talk
- Continuous Assessments

Gemba Focus

Goals Roles **Procedures**

Relationships





Ricky Samples, Randy Eubanks and Jeremy Padgett

Line 4 SMED Team



"ZBS Implementation"

Ricky, Randy and Jeremy recently led a SMED event on line 4 in an effort to reduce changeover time. The team identified an opportunity to reduce changeover time by 25% (60 to 45 minutes) and walking steps by 63%. The team successfully used ZBS tools in an effort to help us continuously improve.





Chris Odell
Forklift Driver

make the difference

"Mistake Proofing"

Chris recently noticed that some bottles were packed in the wrong box and communicated this error to Supervision. His timely communication enabled us to fix the problem and not ship the customer the wrong product.





"Eye on Quality"

Marcus paid attention to detail and noticed that some labels had the wrong metric conversion. When he noticed the error, he didn't proceed with labeling the bottles which prevented our department from having to do a lot of rework.



Marcus Craig

Assistant Line Operator

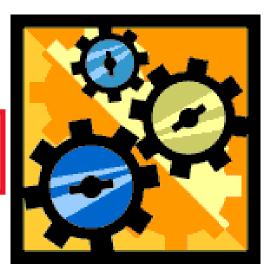
The Top 4 of 5 Drivers

of Employee Engagement

Connection between work and organizational strategy

Understanding of how to complete work projects

Importance of job to organizational success



Internal communication

Leadership Standard Work

- Everyone knows what to do and also what NOT to do
- Standard work by Role and Situation

Leader Standard Work

Role

- Plant Manager
- Value Stream Manager
- Safety Leader/Team
- Hazardous Response Team
- Operator, Cell Leader
- Maintenance Mgr.
- Logistics Manager
- Planner

Situational

- Daily, Weekly, Monthly, Annually
- Business Continuity
- E, Q, D, C
- Kaizen Events
- Union Activity
- Celebrations
- Gemba Walks
- KPI Standup Meetings

The Plan

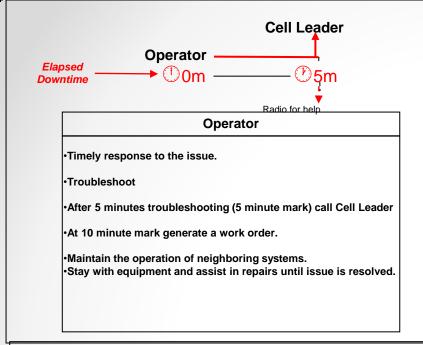
- Lean Boot Camps
 - Leadership Standard Work
 - Standard work
 - Daily Management
 - Train and observe the Gemba
 - Assess Progress
- Daily Management
- Value Stream
- Kaizen
- One Minute Kaizen...Good Ideas Board
- Chase the Waste Out of Here!
- Celebrate ... Celebrate ... Celebrate!!!!!

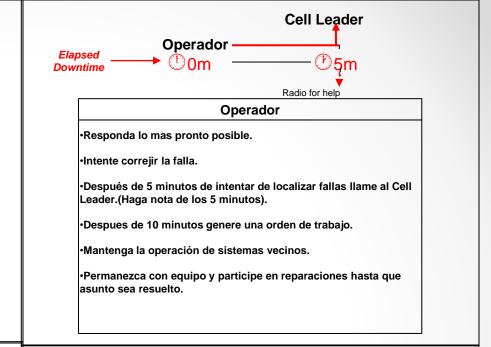
Event	Shift Leader	Supervisor	Lean Mgr.	Maintenance Manager	VS Managers	Plant Manager	EH&S Manager
Shift Meeting	Daily	Daily	Rotate Daily	Daily M	Daily Rotation	Weekly	Daily
Cell KPI Review	Daily	Daily	Daily	Daily	Daily	Daily	Daily
Hourly Count Boards	Hourly	Hourly	Two Hours	Every Four Hours	Two Hours	Four Hours	Every Three Hours
9:30 Strategy Meeting	AS Needed	Lead Daily	Daily	Daily Leads Thursday Planning Mtg	Daily	Daily	Daily
VS/Dept KPI Meeting	Weekly	Weekly All Shifts	Weekly All Shifts	Weekly	Weekly All Shifts	Weekly All Shifts	Weekly
Root Cause Documentation	Hourly	Hourly	Daily	Daily	Weekly	Weekly	Weekly
KPI Board Assessments	Reviews	Close Gap	Weekly (owner)	Support Close Gaps	Weekly	Weekly	Weekly
Stop Start Continue		Quarterly		Quarterly	Quarterly	Quarterly	
Kaizen	Monthly	Bi Monthly	Weekly	Support	Bi Monthly	Bi Monthly	Monthly
Monthly Townhall	Support	Support	Kaizen Recognition Visuals	Set-up	EQDC Recognition MTD	Recognition MTD Business Review	Safety Recognition (owner)
Safety	Support	Planning	Support	Visual	VSM Recognition	Site Recognition	Leads

Notification Guidelines

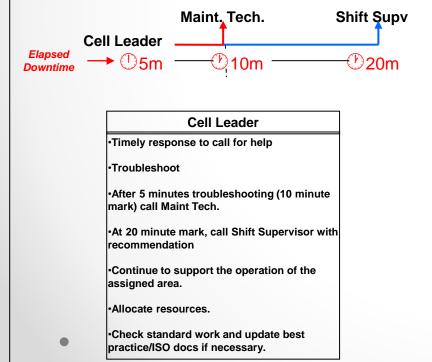
These are notification guidelines for the plant manager and or the department level manager in the event of certain situations. Remember, Safety first! The preservation of life then assets is the priority expectation prior to a notification call. Also, be considerate of blindsiding your immediate manager. Therefore, in many situations your immediate manager notification will parallel or occur prior to notifying the Plant Manager. We will update this list and the priority as needed.

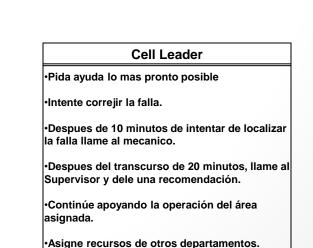
Situation or Issue	Immediate Plant Mgr	Next Day	Week of	Ops Dept Mgr	WeekPrior
Any Regulatory/Govt. Agency Visit	X			X	X
Safety Recordable/ Serous Near Miss	X			X	
Death of an associate	X			X	
Impending Discipline or Termination	X			X	
Death of an associate's of Family Member	X	X		X	
SD Executive or HQ team member visit	X			X	
Union activity or campaign	X			X	
Downtime more than 60 minutes or equivalent cases	X			X	
First Aid		X			
Signs of associate frustration		X	X	X	
Significant Customer Service issue	X			X	
Accusation of Harassment, Racism, Sexism, Threats, Fighting	X	X		X	X
Sickness, Hospitalization of associate's family member		X	X	X	X
Records, Celebrations & /or achievement		X	X		X
Resignation of an associate		X		X	
Significant achievement of associates or team celebration		X	X		X
News media contact (Do not make any public statements)	X			X	
Significant spill or EPA violation	X				
Minor Spill		X	X	X	
Continuous Improvement events			X		X
Serious Quality Hold (5K or recall potential)	X				





Shift Supv

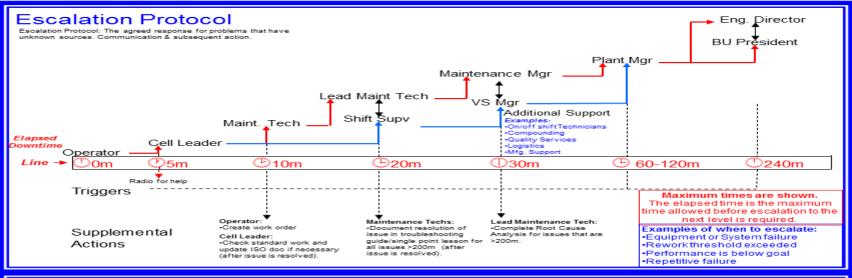




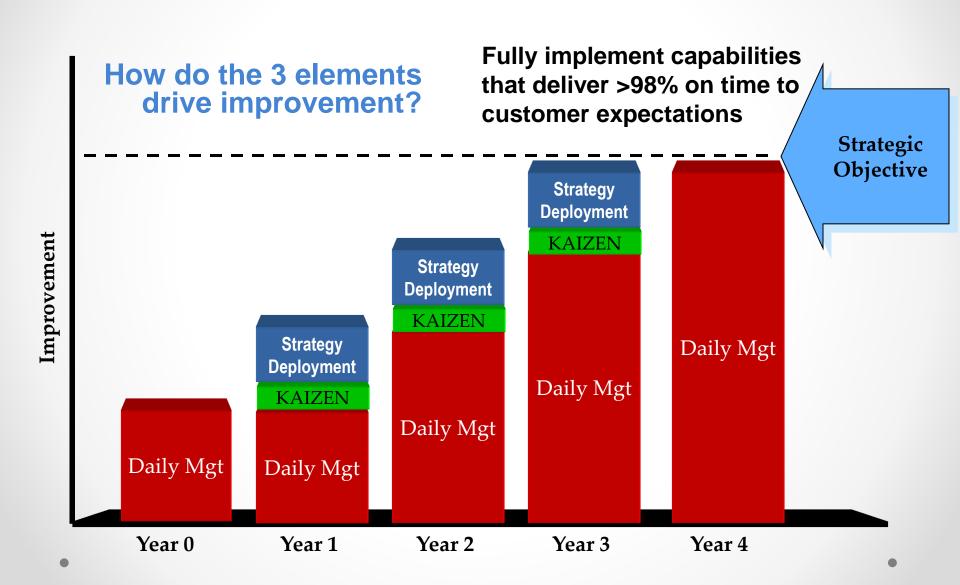
·Verifique el trabajo estándar Y actualize la

mejor practica/ISO documentos si es necesario.

Maint. Tech.
Cell Leader



	Escalation Protocol							
Roles and Responsibilities								
Operator	Cell Leader	Maintenance Tech	Lead Maint. Tech	Maintenance Mgr	Engineering Director			
•Timely response to the Issue.	•Timely response to call for help	•Timely response to call for help	 Timely response to call for help. 	•Evaluate the situation with the Value Stream Manager	Evaluate the situation with the Business Unit President			
Troubleshoot	•Troubleshoot	Troubleshoot	 Assist Technicians in diagnosing the lissue. 	Allocate maintenance resources across the site.	Allocate maintenance and engineering resources across the			
•After 5 minutes troubleshooting (5 minute mark) call Cell Leader	After 5 minutes troubleshooting (10 minute mark) call Maint Tech.	After 10 minutes (20 minute mark), call Lead Maint. Tech	•After 10 minutes (30 minute mark), call Maintenance Manager	*Oversee the escalation process.	company			
-At 10 minute mark generate a work order.	At 20 minute mark, call Shift Supervisor with recommendation	Close work order when Issue Is resolved.	*Document resolution/status at the shift end review	-At 120 minute mark, call Plant Manager	Oversee the escalation process. At 240 minute mark, call the Business Unit President			
 Maintain the operation of neighboring systems. 	 Continue to support the operation of the assigned area. 	Document resolution of issue in troubleshooting guide/single point lesson for all issues >200m (after lissue is resolved).			Olik President			
 Stay with equipment and assist in repairs until issue is resolved. 	Allocate resources.							
	 Check standard work and update best practice if necessary. 							
Shift Supervisor								
Oversee the escalation process. Allocate resources across the department Evaluate the situation and prioritize activities. After 10 minutes (30 minute mark), call the Value Stream Manager.								
	Value Stream Manager							
-Oversee the escalation processAllocate resources across the Value StreamEvaluate situation with Maintenance Manager and prioritize activitiesAll the 120 minute mark call the Plant Manager.								
Plant Manager								
-Oversee the escalation processAllocate resources across the siteEvaluate the situation and prioritize activitiesAlt the 240 minute mark, call the BU President and Director of Engineering								
Business Unit President								
-Evaluate the situation with Director of Engineering -Allocate resources across the situ Ensure resource are available during the escalation process.								



What's the Score?

Winning teams <u>always</u> know the SCORE!







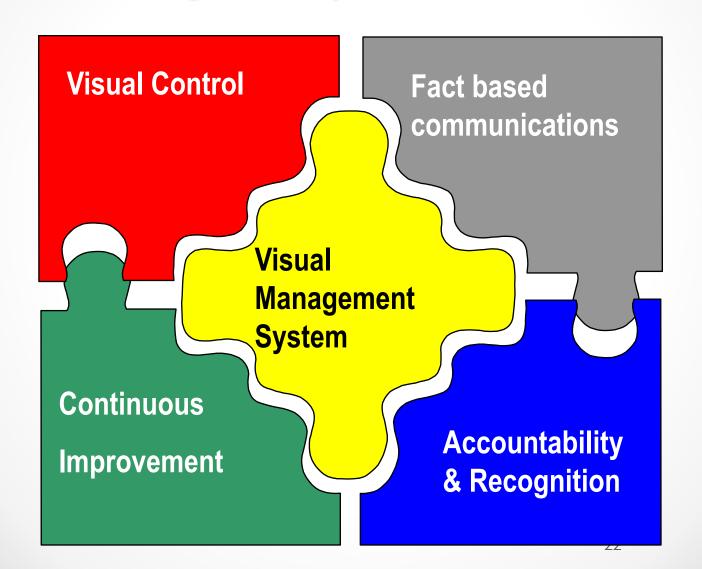




Creating a Lean Culture

- Culture is "what we do around here"
- Lean culture is established by Lean management

Visual Management System

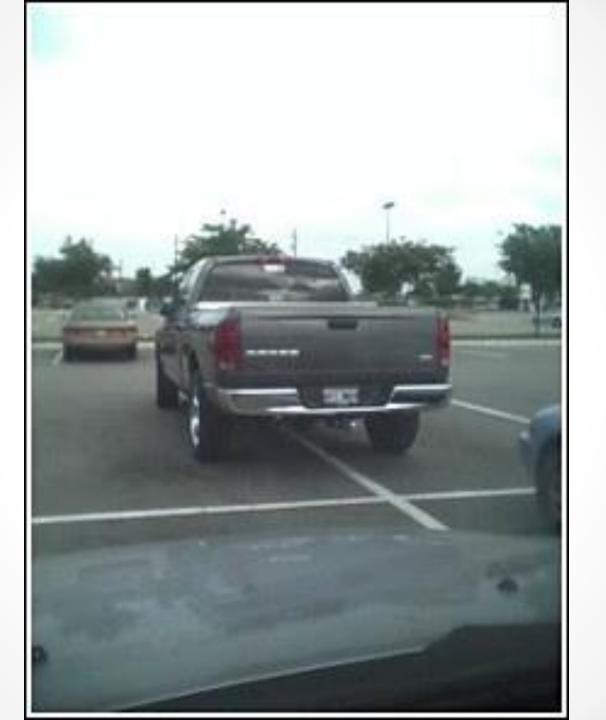


Why VMS?

- Communication vehicle that drives Employee Engagement
- Current data drives decisions (not only historical)
- Puts decision making where the work is
- Moves from having only "specialists" understand to an environment where everyone understands!

Visual Controls

- Simple
- Straightforward
- At a glance
- Easily audited and diagnosed



As raw material is withdrawn, a Kan-Ban signal is sent to the supplier for replenishment



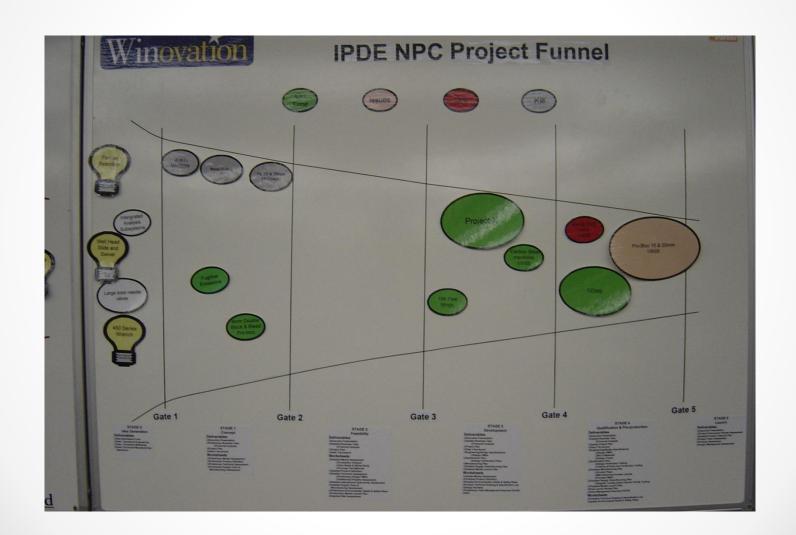


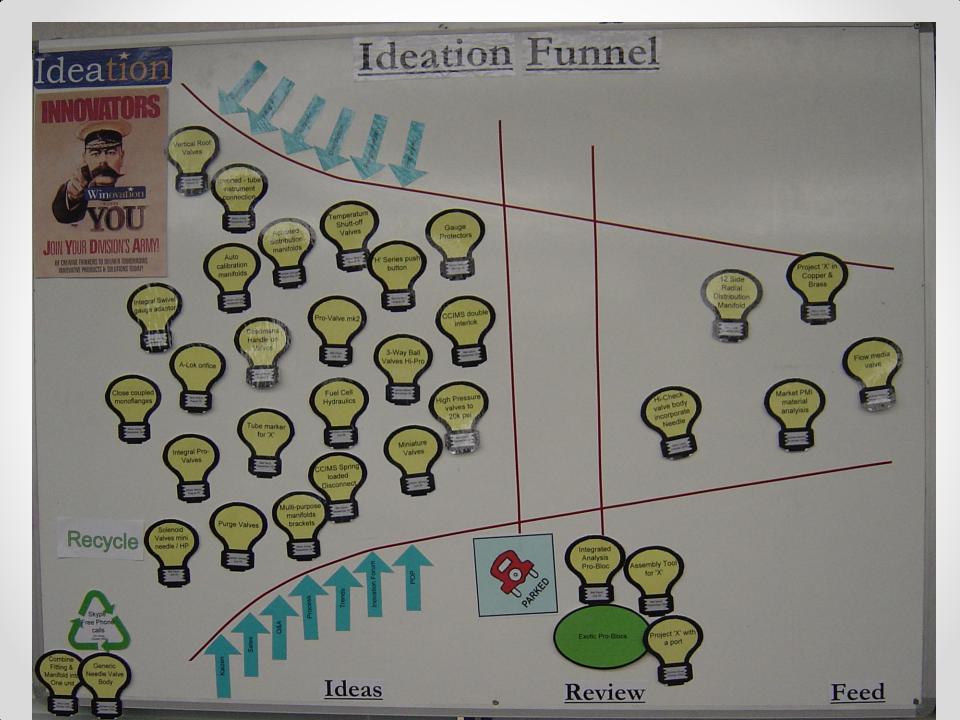
Scheduling board



Work Instructions











Can you spot the problem?





G1+2

JI 76





The CEO is Coming!!!

March 2008

POWDERS LINE 16

5S BLITZ

FEB. 12 – FEB. 19

TEAM

Jeremy Padgett Shane Bohannon

Special Thanks To Our Maintenance Team!!!

5S Assessment

LINE 16

SIMPLIFY LEVEL 0

• STRAIGHTEN LEVEL O

• SCRUB LEVEL 0

STABILIZE LEVEL 0

• SUSTAIN LEVEL 0

TOTAL POINTS

AVERAGE SCORE

P16 5s



Business Case /Strategic Alignment

1) The current 5's score for P16 0 with a goal of 3.0 by end of year. Applying color scheme, red tagging, & scheduling will reduce clutter, improve organization, & assure cleaning of t

Target/Goal

• Improve 5s score from 0 to 2

Deliverables

- Improve 5s score from 0 to 2.0 on P16
- •

1	MM/YY	MM/	ΥΥ	MM/	YY	MM/	ΥΥ	MM/Y	Y MM	I/YY
Timeline										
Mile	estone	Mileston	e	Mileston	ie	Mileston	e	Milestone	Milesto	ne

Dates	1/21/08	Cost Center	
Location	Emerson	Associated VSM	Kevin Singletary
ABS Contact	Jake Simpson	Process Owner	Jeremy Padgett
Tool/Method	5s	Resource	Jake Simpson
BTO/AIP/KPI			

Opportunity		

Scope <u>In</u>	<u>Out</u>
•5s score	Standard Work

	•
Shane Bohannon	
Team Jeremy Padgett	
Team	

Mixing Area

BEFORE AFTER





Shadow Boards for Tooling & Cleaning

BEFORE AFTER





DuPont's Positive Feedback



Standing Platforms

BEFORE AFTER





5S Assessment

LINE 16 SIMPLIFY LEVEL 2 STRAIGHTEN LEVEL 3 CRUB LEVEL 2 STABILIZE LEVEL 0 SUSTAIN LEVEL 0 TOTAL POINTS

• AVERAGE SCORE 1.4

Outcomes

- Identified what tooling & parts were needed
- Created shadow boards & relocated to needed area
- Organized and segregated parts for Dupont & Enforcer
- Removed redundant equipment

Next Steps

- Develop 5S Schedules
 - o Area Map
 - o Duties
 - Responsible Persons
- Complete color scheme
 - 2 tables
 - Flooring inside cell

Hr By Hr

PRECES NOS	BCOREBOARD	1	2	3	4	5	6	7	8	9	10	RESUUTS
7.11	GDAL	100	100	100	100	100	100	100	100			800
M	ACTUAL	177	177	177	177	177	177	177	184			1423
1/-		100			_		THE RESERVE OF THE PARTY OF THE					800
Т	ACTUAL	111	117	117	117	117	117	117	127			940
7-6	(GDAL	100	00/	100	100	100	100	100	100			800
W	ACTUAL	212	212	212	212	212	212	या	216			1700
7.7	GOAL	100	100	100	100	100	100	100	160			800
TH	ACTUAL	129	129	179	129	129	129	179	123			1026
1-8	GOAL	100	100	100	100	109	100	100	100			800
F	ACTUAL	200	200	200	700	200	200	200	250			1650
7-9	GOAL	iou	100	100	COI	100	100	100	100			8 00
S	ACTUAL	236	236	736	236	236	234	236	238			1890

Shadow Boards





February 22, 2008

Team



(L to R) Marcus Kister, Stacey Brideau, Trexia Wells Kandy Brown, Fausto Pastor



L5 Standard Work Revision

2/5-2/6/; 2/21/08 Dates:

Value Stream: Liquids

Location:

Emerson

Liquids Line 5

ZBS Tools:

30 DAY

RESHITS

Standard Work

60 DAY

Takt Time was calculated for Line 5 using incorrect demand data, **IN SCOPE:**

leading to incorrect labor/equipment requirements. We have compensated for increased equipment capacity with extra labor. The

Manning requirement.

Standard Work does not reflect true Takt Time, Cycle Times, or

Manufacturing Process

OUT OF SCOPE: All other areas

END OF

KAI7FN

Change Over Process

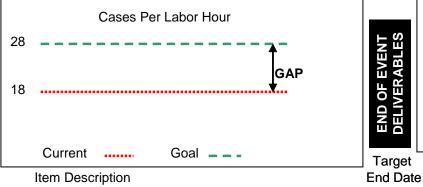
PERCENT

IMPROVEMENT

Change Over Flocess

		IVAIZEIN	IIVII IXOVEIVIEIVI	KLOOLIO	KLOOLIO	KLOOLIO
Productivity – Increase of 10 Cases/Labor Hour by 2/29/08	18	28	??%	??%	??%	??%
Standard Work Assessment – Achieve min. 1.0 by 2/22/08	0	1.0	??%	??%	??%	??%
Skill Flow – Achieve 100% cross training by 3/14/08	??	100%	??%	??%	??%	??%

CURRENT



1. Standard Work Playbooks for 3,4, and 5 operators

Complete

2. Standard Work Audit Schedule

1. Train Stakeholders

NEWSPAPER ITEMS

8.

9.

2. Standard Work Audits

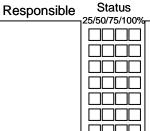
3.Skill Matrix

4.

5.

7.

10.



3.TEAM LEADER - Marcus Kister 4.CELL LEADER - Ann Wells

1.PROCESS OWNER - Marcus Kister

TEAM MEMBERS

5.LINE OPERATOR - Kandy Brown

2.ZBS CONTACT - Jake Simpson

6.LINE OPERATOR - Stacy Brideau

7.LINE WORKER - Fausto Pastor 8.PLANNING - Roxana Debernardi

Observations/ Strategy

•Standard work obsolete •Too much staff idle time •Inconsistencies between job functions •Incorrect Takt Time Our Strategy

- Time Observations
- Determine New Takt Time
- Create New Standard Work Documents
- Combine job functions—offers more flexibility and less idle time

Time Observations

• Cycle Time: 300 seconds

•Drop-off-rate: 1 case per 12 seconds

Automated Cycle Times:

• Filler: 48 seconds per cycle (3 cases) *CONSTRAINT*

• Capper: 11 seconds per 3 cases

• Labeler: 41 seconds per 3 cases

Manual Cycle Times:

•Loader: 6 seconds per 3 cases

• Packer: 21 seconds per 3 cases

•Stacker: 24 seconds per 3 cases



Determining Takt Time

• Takt Time = Available Time / Customer Demand

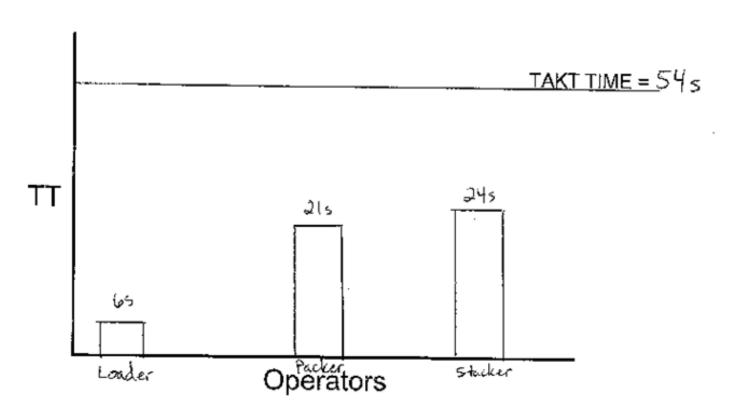
- Available Time = 430 minutes:
 - [8 hour (480 minutes) Breaks (20 minutes)
 - Changeover (30 minutes)]
 - 430 minutes = 25,800 seconds



- Customer Demand = 1,400 cases per 8 hour shift
- Takt Time = 25,800 seconds / 1,400 cases = 18 seconds per case
- Takt Time set at 54 seconds per 3 cases to reflect filling of 12 bottles per cycle

Load Chart

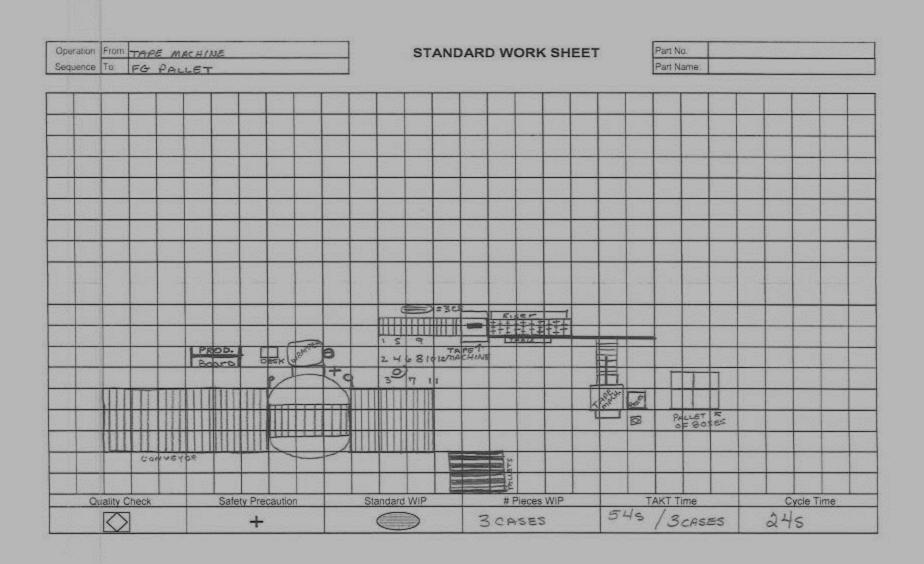
Operator Loading Chart



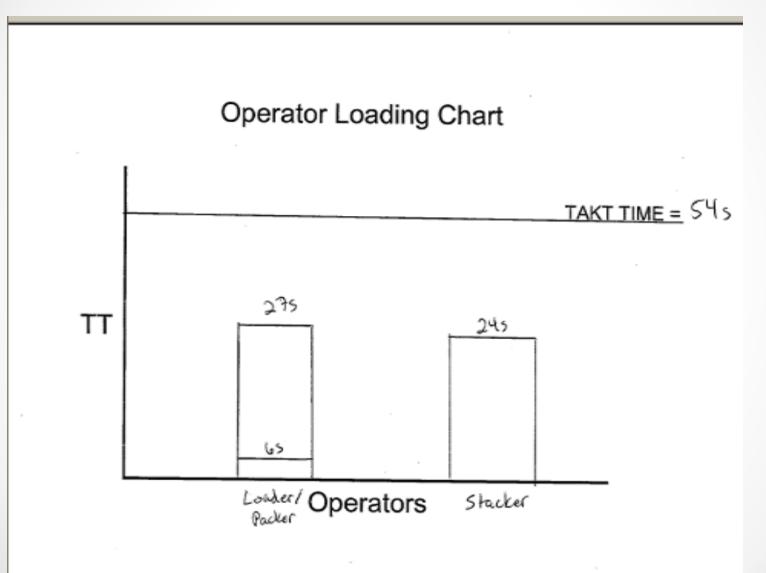
Standard Work Combination Sheet

Model No.	LINE 5	STANDARD WORK COMBINATION SHEET Debe Prepared	02	1211	Quota Per Shift		Manu	el Work -	ШЦ
Work Sequence	STACKING.	Greup			TAKT	545	II SEASON SESSO	ne Work	
Step No.	Description of Operation	Operation Workin Time 5 10 15 20 25 30 35 40 45				0 75	50 1 B4	00	95 100
1	GRAB CASE	3							
2	TURN								
3	PLACE ON PALLET	2 1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						ШШ	
4	TURN	2		ШШ				ШШ	
5	GRAB CASE	3							
6	TURN	2							
7	PLACE ON PALLET	2							
8	TURN	2						ШШ	
9	GRAB CASE	3						ШШ	
10	TURN							ШШ	
11	PLACE ON PALLET	2	Ш						
12	TURK								
	TOTAL	245 🗶							

Standard Work



Job Function Flexibility



Standard Work Assessment Before

0.4

After

2/21/08		Proc. Owner Marcus Lister Rev. with PO										
Level Description	Std. Work Documentation	Participation	Resource Flexibility	Customer Focus	Working to Standard							
Level 5	100% of products covered by Playbooks	One or more workers can analyse Std Work, make changes, document, and such, Mantained a level 4 in perfolpation for 3 months	100% cross trained	Cell is dedicated to customer list (Misible). Meeting customer demand (45% sales on back order). Published to meet (Mistomer demand.	100% attainment for 90 dy							
Level 4	80% of products covered by PrkyMooks- Decemented C/D Process/ Documented TPM process	Team Leader Audits Std Work Daily, Runs Events to improve and update Standard Work documents. Documents CrO process being Followed. TPM process being Followed.	People floorings process to process. Workers are able to setup, check their own quality and not their process to standard rate. At least one multipated person-main from 4 operations PEPS Gross Trailwest.	Daily Schedule based on Kanban No external intervention for setting production priorities, Team develops plan to catch up to 4x80x4xx ctem and.	Achieving >50% attainment over 20 days							
Level 3	Visual Schedule for Cell (where you on determine time of upon ing changeovers and production goal) is prominently visible. Granity Specifications for operation. are prominently visible.	Teets Loader Creates/Lipidates Standard (Not): Documents: Root cause weekly meetings led by team leader with active participation tree team (good ideam)	Propie fies from process to process. Workers are able to settigs check their own qualify and not their process to standard cate. At least one multiplied pamon-more than 1 operations. 60% Cross Traineds	Tean Leader-Supervisor adjusting Daily Plan based on priority Best product sequence defined. C/O within 10% of goal	>90% attainment of hourly gr							
Level 2	Multiple playbooks (at least 2) present at cell Work (operation) Standards prominently visible If it by Hr Charts preminently visib	Wellions Follow Standard Work, Standard process of Weekly Root cause analysis for misses.	People for from process to process. Workers are able to setup, check their own qualify and run their process to standard rate. At least one multickliked person more than 2 operations \$25% Cross Trained)	Product list assigned to sell C/O goal prominantly visible and altheirs are tracked	>60% attainment of hourly go Worksta Follow Standard With Team leader and workly understand relationship bots Takt and Cycle Time							
Level 1	Standard Work documents are greened, at cell (Operator Load Churt, SWS, SWCS) (one playsoes)	Tears Leader Understands Standard Wish, Ht by Hr Chart is systematic Early Standard receilings to review performance are being held at cell.	People flex from process to process. With farm are able to webp, check their own guidly and run their process to standard opts. At level one multiplified person man than 1 operation (9-25% Cross Trailwel)	Takt time prominently visible Hr by Hr Up chart up-to-date	Hir by Hir chart up-to-date a constraints regarding reason misses to goal for each mi							
Level 0	No Standard Work documentation present	No-one is involved in using or updating documented standard work.	Operators Sitting anklibr Operating one machine. Single Skilled	No customer flous in productice.	No Hrby Hr							
ategory Score			a									



5-S Improvements

Before





What message does this send?!



5-S Improvements

After

(New plywood siding installed)





What an Improvement!!!

Many thanks to our maintenance team for their tremendous efforts and contributions!!

What's Next???

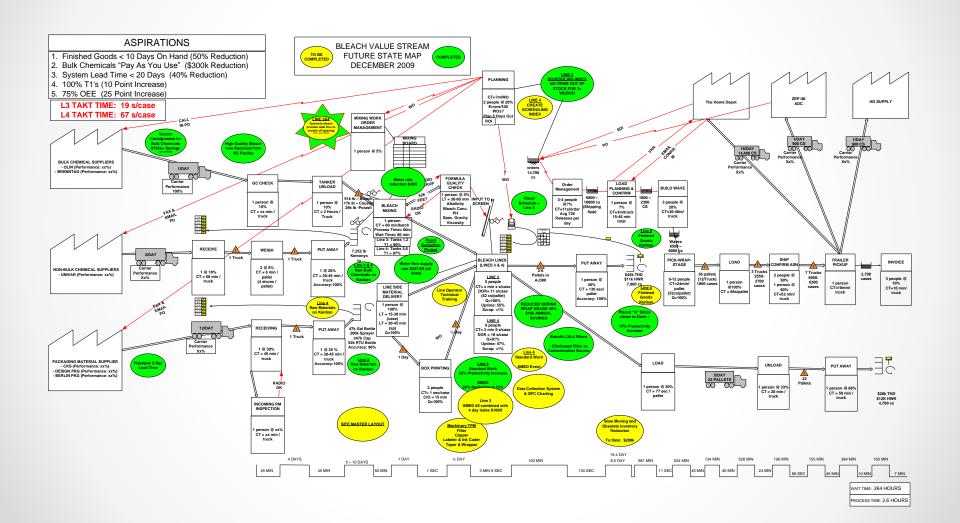
Newspaper Items:

- Training the stakeholders
- Creation of audits
- Skills matrix—100% cross-functional by 3/21/08
- Additional playbooks created for 3-person and 5person teams





Value Stream Map



The Executive Board is Visiting

EPD has Recognized the Site
The Ombudsman has recognized the Site
Emerson Does it Again!

POWDERS LINE 1

FY2010

P1 - Before





P1 - Before

- Has 4 positions: Bottle loader, Filler/Capper, Packer, Stacker
- Distance from bottle loader to stacker is 40 ft.
- Bottle loader = ½ time position
- Filler/capper = Full time position
- Packer = Full time position
- Stacker = ½ time position
- Cannot combine the two ½ time positions due to the distance between them
- Current DLE% is 112% with a head count of 4

<u>P1 – Now</u>

- Extend bottle turn table, next to stacking area by adding: 90 conveyor, 15 ft conveyor, & 2 110w electrical drops.
- Reduces distance by approx. 12 ft
- Combines the 2 ½ time positions
- Reduces head count by 1, possibly 2
- Converts line into a U-shape cell
- DLE% increase up to 60% from 112% to 172% (-2 heads)

Needed to Complete

- Equipment: Conveyors 90 degree turn, 15 ft straight
- Electrical additions: Extend 110w from over line to power turn table
 & conveyor (2 drops)
- Work can be performed by maintenance (no outside contactors required)
- Amount of money = Approx. \$25,000 per Chuck Berry
- Labor savings = Reduce head count by 1 = \$720 a week (40 hours)
 Reduce head count by 2 = \$1,440 a week (40 hours)
- If line ran 40 hours a week & able to reduce head count by 2; would pay for itself in labor savings in approx. 18 weeks

New conveyor added



Zep maintenance installing



Results

- 1st week of production after installation
 - DLE% = 155% (+ 40%)
 - Headcount = Lowered by 1 on ZROOT2, ERK24, & 8646
 - Headcount = Lowered by 2 on RR16



More Successes

- The Big Daddy Buy
- Manufacturer of the Year!
- Consumer Product Safety Commission
- Thrived During the Economic Downturn!

Event

Powders

P3

Standard Work & 5s

April 23 - 24

Team



Sue Knox, Angel Farist, & Anabel Rodriguez

Powders - P3 Standard Work & 5s

4/23/12 - 4/24/12

Powders

Emerson

P3's 5s score hasn't improved in over 6 months. The visual documents are outdated, line organization has decreased, and responsibilities need to be updated.

P3's standard work hasn't been updated since the addition of the new filling machine & added conveyors. All visual documents pertaining to standard work needs to be updated.

5s & Standard Work

All other Powder Production Lines

31 %

24 %

5s Audit - Increase 5s score from 3.2 to 4.2

Standard Work Assessment - Increase score from 3.4 to 4.2

4.2

4.2

??% ??%

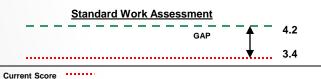
??% ??%

TEAM MEMBERS

??%

??%





1. Documented Method for Uneeded Items

2. Line Parts Labeled

3.2

3.4

- Computerized Line Layout of 5s Zones by Color
- 4. Staffing Daily 5s Responsibilities by Color
- 5. Updated Tooling Shadow Board
- 6. Updated 5s Audit Form
- 7. 5s Color Scheme Line
- 8. Playbook with 100% of Products Covered
- 9. Documented C/O Process
- 10. Updated Operator Load Chart & Standard Work Sheet

End Date

Responsible

Complete

25/50/75/100%

Status

- 1. Angel Farist
- 2. Sue Knox
- 3. Anabel Rodriguez

Target

7. 8. 9.

1.

2.

3. 4. 5. 6.

10.

Scores = Old / New

Standard Work Assessment

3.4 / 4.2

- Std. Work Documentation = 3 / 5
- Participation = 3 / 4
- Resource Flexibility = 4 / 4
- Customer Focus = 3 / 4
- Working To Standard = 4 / 4

5s Score 3.2 / 4.2

- Simplify = 3/5
- Straighten = $\frac{3}{4}$
- Scrub = 4/5
- Stabilize = 3 / 4
- Sustain = $\frac{3}{3}$

Standard Work



5s Responsibilities

<u>P3 - 5s</u>

Sealer - Daily

- •Clean & straighten raw material pallets
- •Clean & sweep the floor around machine, conveyor, turntable, & desk
- •Dispose of PPE

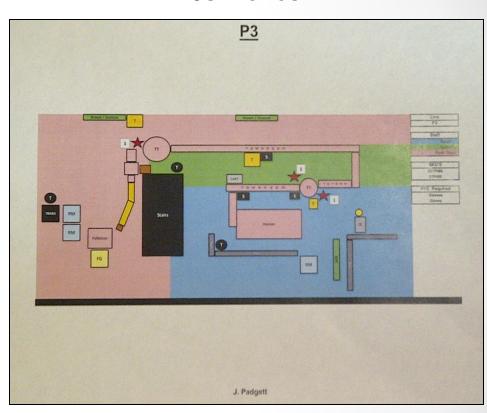
Stuffer - Daily

- •Count & record scrap
- •Clean & sweep the floor around the turn table, sealer, conveyor, & tooling table
- •Make sure all containers are emptied
- Vacuum
- •Make sure drums are labeled & covered

Packer / Stacker - Daily

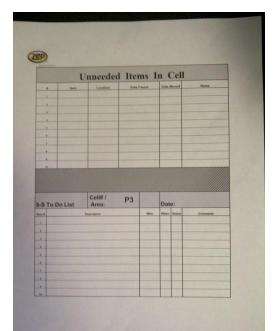
- •Count & record scrap
- •Clean the sweep the floor around turn table, taper, rollers, & palletizer
- •Sweep floor under hopper against back wall
- •Clean & straighten raw material pallets
- •Dispose of cardboard

5s Zones

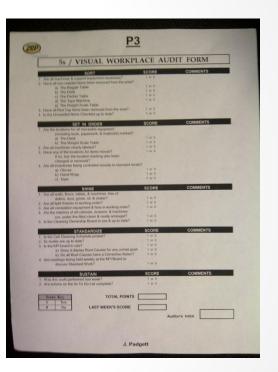


Other Deliverables

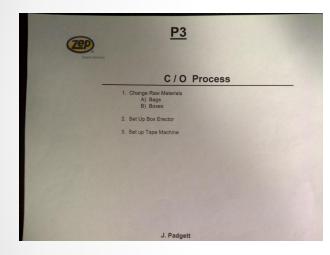
Unneeded Items Checklist



5s Audit Form



C/O Process



Production Rates

- Standard 240 cs (2 batches) @ 430 mins with 3 people = 33 cs/hr
- Actual 1) 240 cs (2 batches) @ 330 mins with 3 people = 44 cs/hr (25%)
 2) 360 cs (3 batches) @ 430 mins with 3 people = 50 cs/hr (12%) Total = (37%)
- Future 480 cs (4 batches) @ 430 mins with 3 people = 66 cs/hr (50%)
 - √ Redesign Line (move sealer)
 - ✓ Shorten Travel Time By Removing Conveyor

Needed to Complete

- Equipment: Conveyors 90 degree turn, 15 ft straight
- Electrical additions: Extend 110w from over line to power turn table
 & conveyor (2 drops)
- Work can be performed by maintenance (no outside contactors required)
- Amount of money = Approx. \$25,000 per Chuck Berry
- Labor savings = Reduce head count by 1 = \$720 a week (40 hours)
 Reduce head count by 2 = \$1,440 a week (40 hours)
- If line ran 40 hours a week & able to reduce head count by 2; would pay for itself in labor savings in approx. 18 weeks

VIDEO

Daily Accountability

- Tiered meetings
 - o <15 min
 - o Standing up
 - Adjacent to process
 - Agenda Dictated by Visual Controls
- Assessment/ Assignment / Accountability
- Root Cause Analysis

How to Engage?

- Who is my customer?
- What do they value?
- What processes do I use to deliver that value?
- What should I measure?
- How am I performing?
- What is my rate of improvement?

VMS Key Process Indicators

- Enterprise Risk
 - Environmental Health and Safety/Compliance (EHS/C)
 - Sox Compliance
 - Legal Compliance
- Quality
 - Defect & Error free
- Delivery
 - o On-time & Complete
- Cost
 - Productivity & Profitability
- 5S and or Innovation

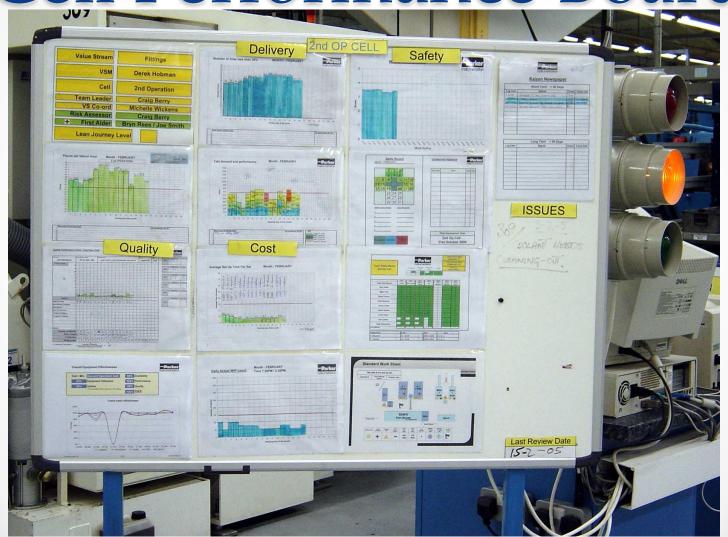
Stand up Meeting

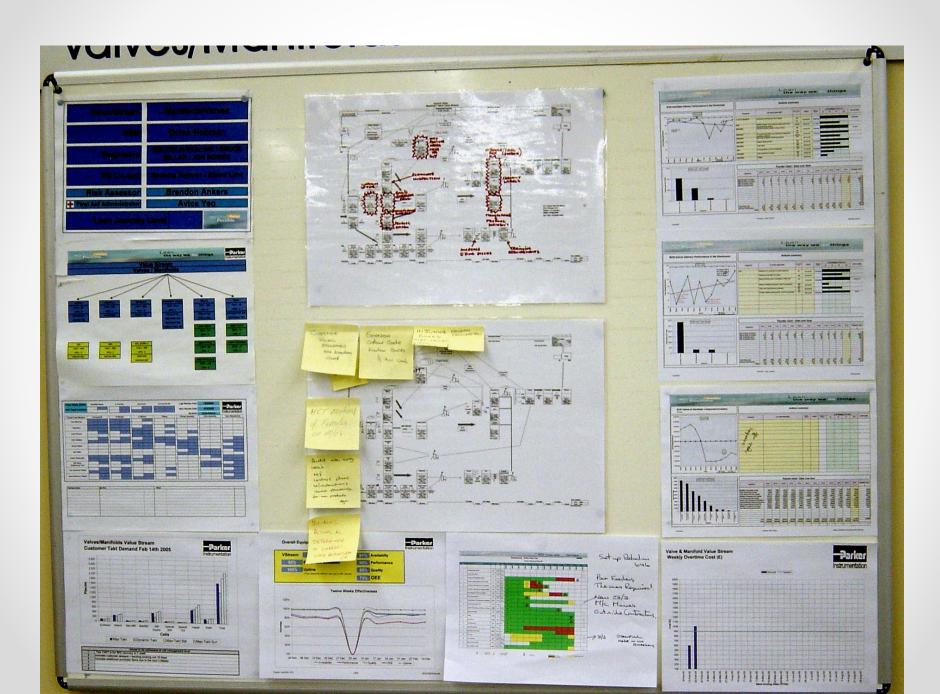


Cell Performance Board



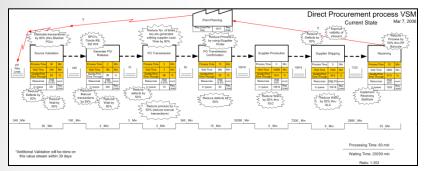
Cell Performance Board



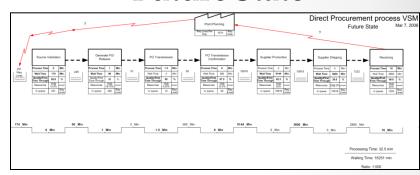


Continuous Improvement Board

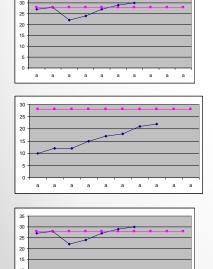
Current State



Future State

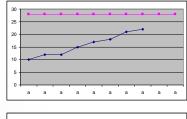


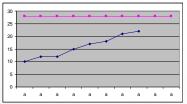
VS Metrics



Transformation Plan







Event R.C./

Newspapers







Product / Customer **Acuity**Brands... Service Strategic Sourcing . f AML LEGAL (BARRY GOLDMAN) VALIDOTED O - PLANTS (GUILLERMO VAZQUEZ) **Key Performance Indicators** Electrical Commodities D- PLANTS/PMO/CUSTOMERS (SING) PMO/FINANCE (LAVON D.) **Operational Definitions** Met MARTY CARP E= # Contracts by Commodity Goal PATHEYMAN - Diano Henriss (5/14) Quality (70 Requisitions on BPO) Comments Goal selivery (Late TVC by day) **Not Met** Total Delivered (DS+ Process: MGT. FOR ELECTRICAL SPEND CommoDITY Team: Delane Chemi Deborato Last **Root Cause** Corrective Action JAN KPI FEB APRIL yar, MARCH Goal Avg 60% 502 702 40% 80% midfirms/Signed E 5-22 5-15 6-5 Q Worke increasing 15 production calculty Reporting Supplier SLL Presence Moving us turne away from Advance Baijing Dynamics to GSLC they loss WK 6/5 D Sulling "field"invertors for short "fuctories" 824 100) C - Sending DAILY e-mails asking OSRAM -615 FLEX WHEIST HEILAND-dose PHILIPS for updates - Having joint concalls of Elect Supplier Sound + See Team Blanket Po's now List Concept KAUF MAN VENTURE-1P GE - close ATW 5-27 5.8 5-15 5-29 A1W-16 NINEJ4-9 PRICINGS - CHERENTLY Working 20 WIAP to Clear INV. PRICE Ma MGES - 2 20 Roytec-23

Flexus p-2

Customer

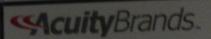
E- ABL LEGAL (BARRY GOLDMAN)
Q- PLANTS (GUILLERMO UAZQUEZ)
D- PLANTS/PMO/CUSTOMERS (SPUT)
C- PMO/FINANCE (LAVON D.)
SU- MARTY RAPP

NP- PATHEYMAN - Diana Prentiss (5/14)



Cı	ustomer	
E = Compliance Office Q = Plants/PMD P = Plants	Charles Ross	3-13-06 /
C = Finance/PMD 5S = A/P/Plants Alerts = A/P/Plants	Pat Heyman	3-6-06

r: lerry Patterson



Key Performance Indicators

Operational Definitions E-% Spend Under Contract Q-Price Alerts (#of inveices)
D-Short Parts (\$b)

Goal

Met

55-% Regs Sourced
(GPF, MPF, IPF, and Skine)

Not Met

Product / Customer Service E= Compliance Office Sherry Daris
Q = Plants / PMD
D = Plants
C = Finance / PMD
SS = NP / Plants

Ptt Heyen Glass (034) Castings (076) 3-13-06 V Extrusions (059) Plastics (064) Charles Ross 2-24-06 V Gasketa (037) Woodframes (055) Part Heyman, 3-6-06 V Alerts = AP / Plant:

Comments

Process

Owner:

erry

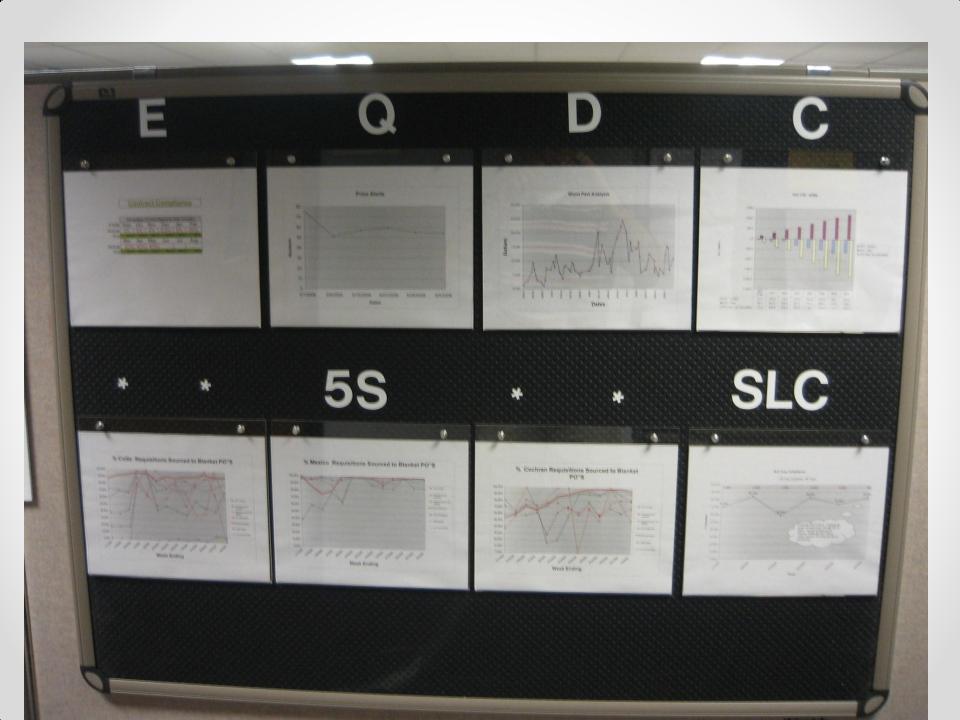
D-Short tarts Class

C-TPO (She millions) biol fort us unhavorable PPV

Computative PTD Conversion For Favorable PPV

ECT Terry fullerson, Danny Ford, Process: Direct Materials

	Goal	Last _Avg	KPI	M	T	W	T	F	Root Cause	Corrective Action
8	30%	29.27	SHAY	25.63	27.53	29.23	29.2% 70%	29. 2% 80%	Recvid new midform agreement from Barry Goldman (Friday - 4/2).	Sending out new midforms to 23 ECT suppliers today (6/5)/
K	60	38	Q	A STATE OF THE PARTY OF THE PAR	o/E = 6/10	w/E = 6/17	W/E = 4/44	w/E = 7/1		
	Merchla)	B 266K Last Week's	DOROTHY	THE RESERVE TO SERVE THE PERSON NAMED IN	Tuesday #256K	#18K		Friday #294		
6	OK (monthly)	(Normalle)	DANNY	3an 8 185 300 8 550 (u)		Mar 8464.3(4) \$667.7 (4)				and the state of t
	80:	83.6% may : 06	SHAY 5S	78.8%	wife who	m/s = 6113	W/E = 5/34	WE= 1/1	Castings + Extrusions - Many blankets expired 5/31 w/o hoving a new blanket in place.	Develop a blanket calendar which lists expiration dates. Also, set "Notification Control" in Oracles at 45 days for 3mth blankets and 15 days for 1mth blankets.



AcuityBrands...

Key Performance Indicators

Operational Definitions 55 Sourced Req.

E Spend Under Contract

Q Price Alorts (invoices)

D Short Parts

C TCO = Total Cost Owner ship

Team: FLAT ROLL

SLC compliance of of items @ or above level

Goal

Not Wet

Process: Direct Mate

	Produc Service		
•	Pac	kaging	

Aluminum Reflectors, Labels, Buffing, Finance = Lavon Dunaway = May Compliance = Larry Miller = May 31 Louvers

Plants = Jim Rush, Lazaro Barbasa, Luc Gurao

Comments

Process Owner:

Chris Castleberry

	LAI	NOLL	-		MECI	LATIO	iw.		
Goal	Last WK Avg	KPI	MADril	May	WILLIAM	Tuly	FAug	Root Cause	Corrective Action
80%	42.1.		42%	43%	43%			Legal had mid-form from	New Mid-form recieved by 2. From legal. Have 6 midforms targeted this month totaling \$20 min to Reach God.
96	54	PRICE Q ALERTS	6/6 04 53	6)12	94	420	2/3		
\$87.5	140	SHORT D PARTS	129	T/173	W	T/165	F 108	ALP = 43,64 Prost- = 40,682 Ecolite = 21,384	Substantial increase, demand beyond forecast. Working to implement new levels in SVC.
0	1226	ACT C PLAN	April 634 1226	Max	June	ZEIA	Aug		may deta due week of light
80	89.9	BLANKETS	90.2	6/12	6/19	6/26	7/3		
96%	74 /	SLC	82.8	412	419	Wau	7/3	Gignificate increase levels New Gelc + Islc metrics Timplementation. ALC - O Ecolite olb Jan	Isla + asla Newly Created Continue Implementation!!

ZBS Countermeasure Tips

When to Use:

- •When actual performance does not meet planned performance
- •When your process is failing (bowling chart AIP, KPI, Hour by Hour Board, etc.)

Run Chart/Trend Chart:

- •What KPI or TTI are you trying to improve?
- •Show historical trend; include both Plan and Last Year along with actuals

Pareto Chart:

- •Shows the "top" reasons why we missed plan
- •80/20 rule 80% of your issues are caused by 20% of your underlying factors
- •Work on the vital few that cause the most problems and will give us the greatest impact
- •Helps you prioritize your problems, ensures you don't start with the small stuff

Description of the Problem:

- •What is happening?
- •Be specific use data! Not feelings
- Make sure it ties back to your Pareto chart
- •You may have more than one root cause for one problem, that is OK!

Root Cause:

- •Why is this problem happening?
- •Use 5 Why's to help determine root of the problem

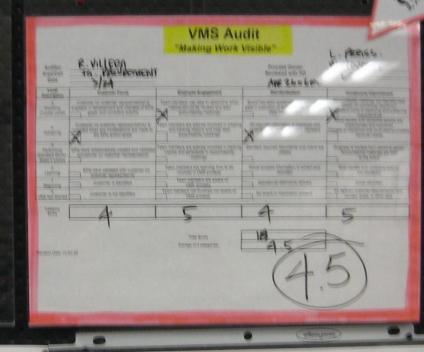
Countermeasure:

- An action taken to offset another action
- Develop an action plan to quickly get back on target
- •Focus on fixing the process
- •Keep the countermeasure on the schedule until the problem is fixed
- •You know your countermeasure has worked if the problem does not reoccur

Assigned To:

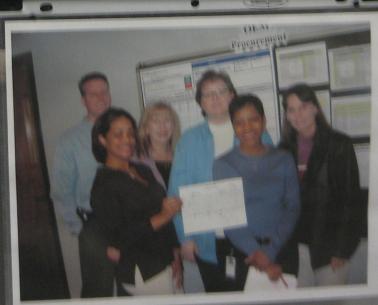
- •Who owns the action?
- •Can be a team but try to have a specific name so that leadership knows who is responsible, also ensures action will take





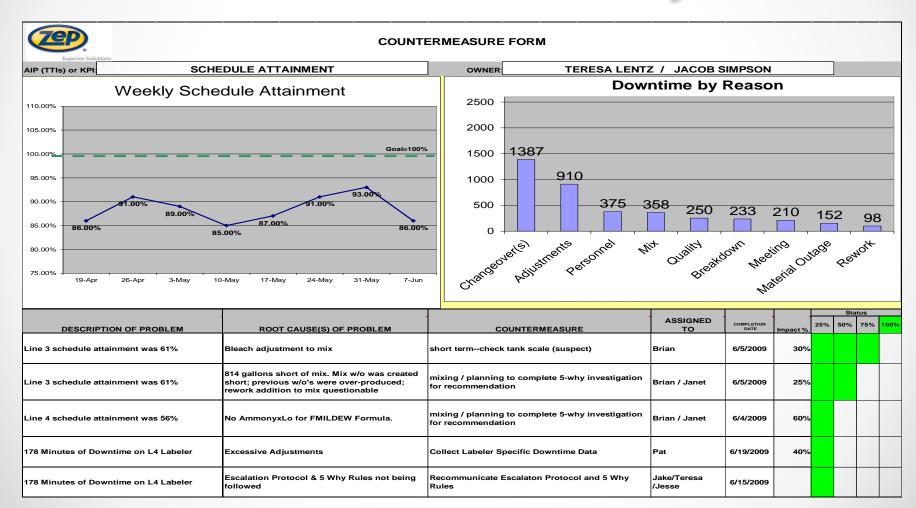
VMS Board Retation

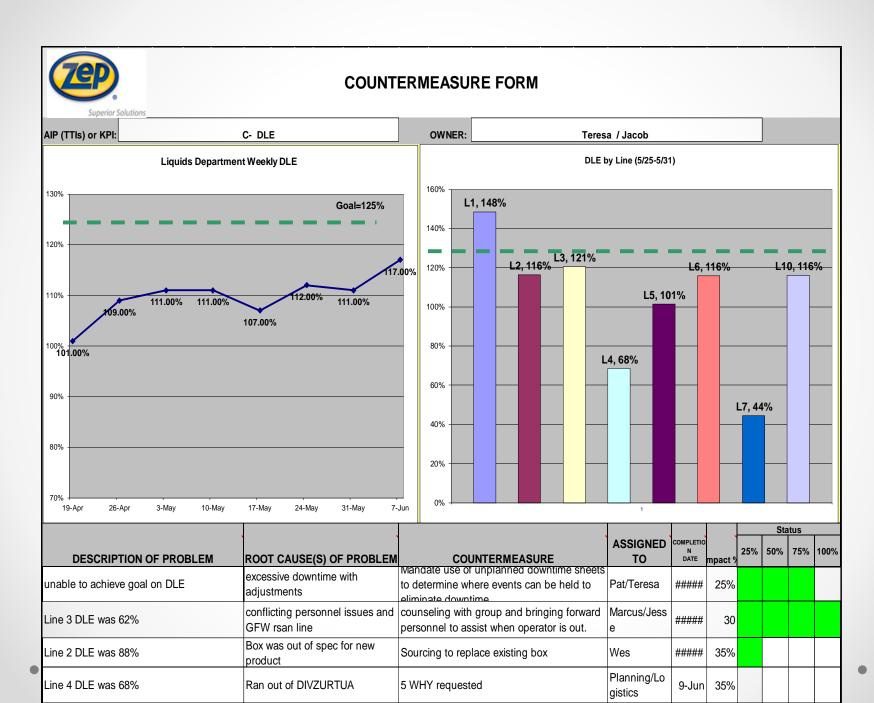
04/10/2006 Teresa Clark 04/17/2006 Larry Braiss 04/24/2006 Tammy Murphy 95/01/2006 Paula Shipman 95/08/2006 Tammis Dooley 05/15/2006 Paedy Pate 95/22/2006 Ester Amaid 05/28/2003 Teresa Clark 98/95/2006 Larry Braiss 98/12/2006 Tammy Murphy 06/18/2006 Paula Shipman 98/28/3996 Tammis Dooley 97/93/2006 Deady Pale 97/19/2006 Ester Arnold 97/17/2006 Taresa Clark 97/91/9896 Tammy Murphy

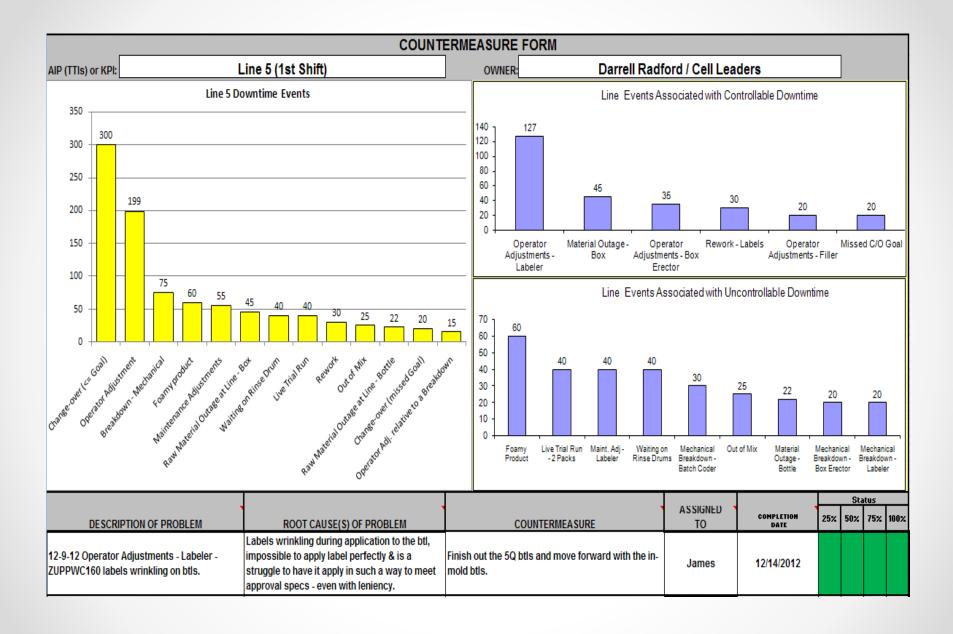




Root Cause Analysis

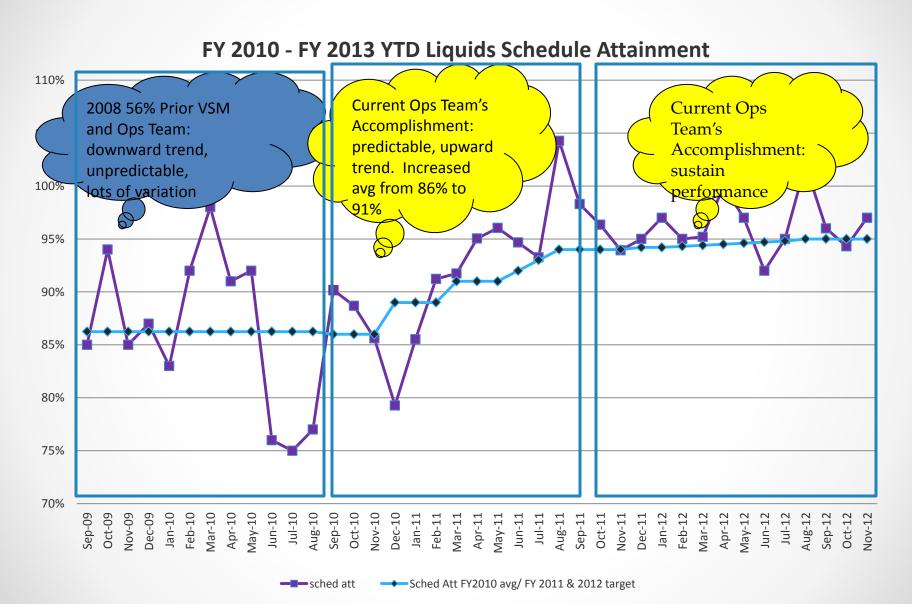




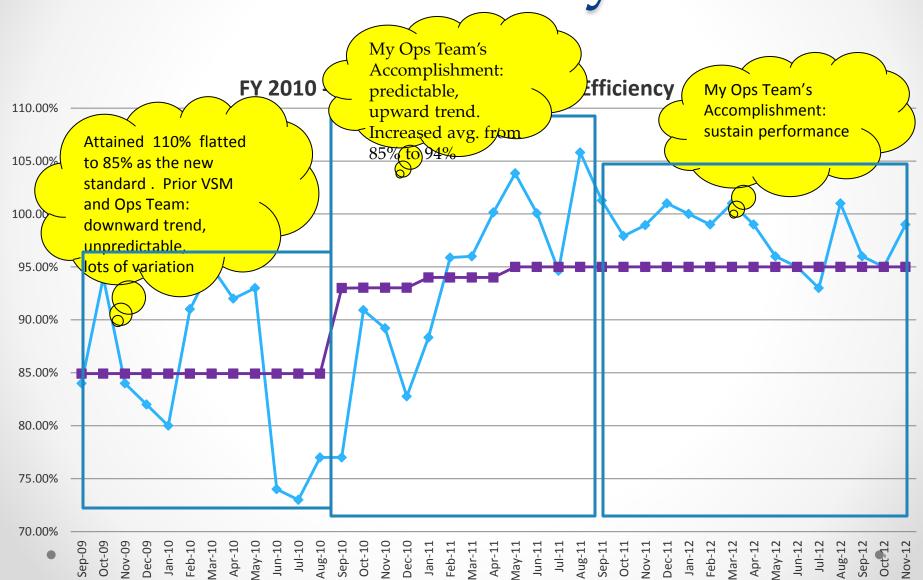




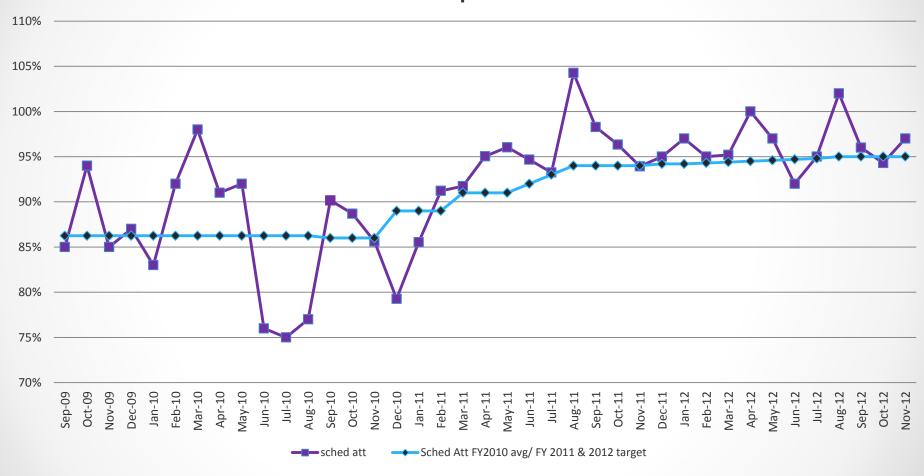
KPI: Schedule Attainment



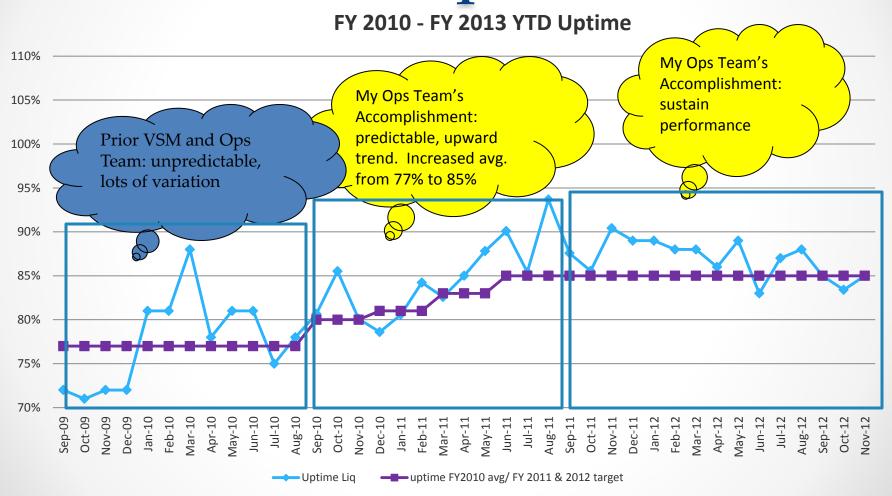
KPI: Daily Labor Efficiency



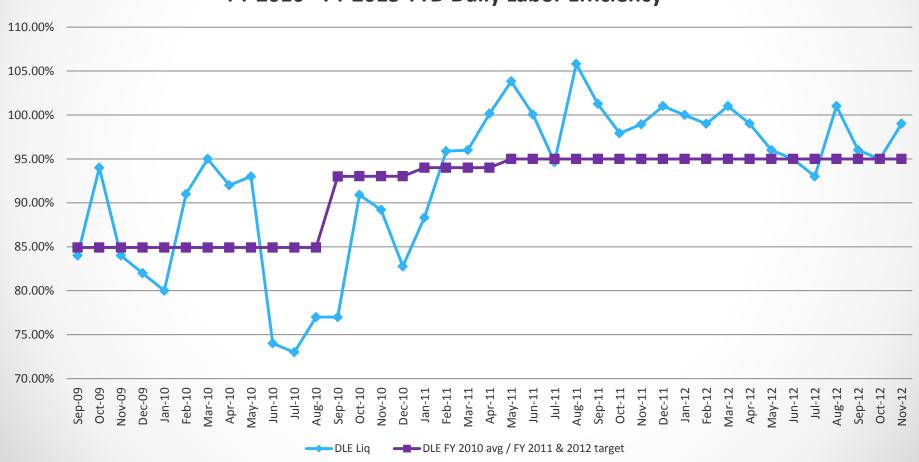
FY 2010 - FY 2013 YTD Liquids Schedule Attainment



KPI: Uptime



FY 2010 - FY 2013 YTD Daily Labor Efficiency



KPIs Retail Supply Chain

	2007	2008	2009	2010	2011		
Environmental Health & Safety	18	7	5	4	1		
Lost Time	2	0	2	0	0		
Quality T1	89%	96%	96.79%	97%	98.3%		
Service Rate	94.6	99.4	99.6	99.8	99.4		
Lead Time Days	5.6	3.1	3.00	2.56	2.6		
Percent of Sales	19.6%	14.8%	11.5%	12.8%	12.4%		
Schedule Att.	79%	84%	88%	87%	92%		
Direct Labor Efficiency	63%	83%	115%	*114%	120%		
Uptime	36%	71%	83%	80%	85%		

Biggest Award



Awards and Honors

- Manufacturer of the Year
- First Site to Perfect EH&S Audit
 - o Four Years in a Row
- First Site to Perfect the Business Continuity Process
 - Three Years in a Row
 - o Ice Storm Proof!
- No deviations on Federal Annual and Surprise Audits
 - Consumer Protection Agency
 - DOT Hazmat
 - Environmental & State Dept. of Natural Resources
- 3.00 on Gall-up Survey
- Letters of Thank and Acknowledgment
 - o The Home Depot, Ombudsmen, DuPont, EPD, Chamber of Commerce

Learning's & Reflections

- Put the Right Team on the Field
- Utilize everyone's Strength's
- Eliminate Toxic Teammates
- Front load with Talent
- Goal, Roles, Procedure Expectations
- Continuously Measure
- Professional Coach, Consultant
- Celebrate and Document the Journey
- · Gemba, Gemba, Gemba!!!

?? QUESTIONS ??