Subject: Cleveland Process Audit

Date: November 4, 2015

Completed By: Steve Busicnki

On November 4, 2015, work order CLV 57995 was ran on the PWC CLO for Mansfield. Tag DU67587 was verified prior to loading and use of the coil. The operator measured the full width of the material at the beginning of the job. The operator then measured the thickness of the material at both edges and the crown using a micrometer. Once fed through, the operator measured the width of a select number of cuts from the run. The width of all cuts was measured when the coil was split. The thickness was measured again at the end of the master coil using a micrometer at both edges and the crown. Based on the gauge report, 100.0% of the gauge was within the customer range. Micrometer readings verified material to be within specification.

On 11/11/15, the operator was retrained on measuring the width of all cuts at the beginning of the job. An OJT form was used to document this training.

Part Spec/PO Audit Form

Cust #	7054	Customer	Mansfield			Grp/Sz/Grd/Wdth	o/Sz/Grd/Wdth GVC / 0.0550 / QH30CO / 3.0000		
Equip/Plant	PWC CLO	Work Order #	CLV 57995	Date	11/4/2015	Part No.	1003-005	<u> </u>	
Work (Work Order Information Material to be Used		Actual						
		Tag #1	DU67587	Tag #2		Gauge #1	.0555, .0565	Gauge #2	
		PO#	21779-001	PO#		% Gauge In Spec	100.00%	% Gauge In Spec	
Gauge Range	0.0550 - 0.0610	Gauge Min	.0550 Min	Gauge Min		Low/High Gauge	0.0550 / 0.0588	Low/High Gauge	
Width Range	2.9950 - 3.0050	Width	48.3750"	Width		Average	0.0573	Average	
Length Range	Coil					Width	3.001, 3.002, 3.003	Width	
Rockwell	60.00 - 75.00	Rockwell		Rockwell		Length	Coil	Length	
Tensile						Rockwell	62, 64.5, 64	Rockwell	
Yield		A653							
% Elongation		Galvanized Coil							
Chem Rqmts		A109/A-08109N	1						
Other Rqmts		G30							
		.0550 Min X				Other			
		48.3750"							
		1pcs 44,530lbs							
Summary									
Summary									
Actions									
Actions									
Final Status									
i iliai Status									

Slitting Order

Date:					Customer:					
11 \4 \15 Work Order #:					Date Run:					
CWSJOPIS					Nov. 4,3	1015				
	VOPIN		The second second		1000					
		Incon	ning Inspe	ection Ch	ecklist	2				
Tag #	Gauge & Width	Туре	Tag Wgt.	RB	Olsen	Actual Wgt.	Width	Mic		
DU 67587	,055 x 48.375	Cwc	44,530	1662	~	44,530	48/8	.055,5/		
			•	TW				1.056.5		
Cutting In	structions:									
catting in	structions: 1600	13 3.000								
Slit Tolerance: Max O.D: Sold milyal C					Max Skid Wgt: I.D:					
Gauge Range:				Salesman:						
	55 / OUI structions:									
	Cuts with some de	fect but okay	to ship				Cut Size			
_				Cut Weight						
					111	4	- Defect			
						/\	- Approved E	3v		
					V		_ , ,			
2	Cuts Rejected						Cut Size			
	-				٨	÷ /	- Cut Weight			
						/ _ \	- Tag No. or	No.'s		
					(V /		Reason for			
M g	Ok to move materi	al for shinmer	at or to Stoc	k	0-41	1 1 20 L	Name			
	ok to move materi	ai ioi silipillei	11 01 10 3100	` .	11-1-		Date			
					11 1	15	- Date			

Slit Size Inspection

Date: 1001.4.0015 Work Order: 01157995

	Begir	nning	(Paxson Only)	E	End		
Size of Cuts	Width	Mics	Middle Mics	Width	Mics		
3,000	3.803 3.002	***	30/12/14/16	3,003 3,002			
	3.003	Χ,	N V V	3.003			
	3.009			3.002			
	3.00)	*		3.000			
	3.003	± ₹		3.003			
	3.003			3. 603	,		
	3.003	.055.5/		3.003	.055.5		
	3.009		· · · · · · · · · · · · · · · · · · ·	3.002			
	3.001	1.056.5		3.001	1.057		
	3.003	94-2		3.003			
	3.003			3.003			
	3.009			3,000			
	3.003			3.003			
	3.001			3,001			
	3.000		·	3,000			

DO	ANI'	V CI	JTS	НΔ	VF.
DU	HIV	1	\cup \cup \cup	ΠA	VE.

Rust/Stain

Burrs

Knife Marks

Initials

J.P.

AGT400 Coil Summary Report

Jemison Metals -- 60 Inch Loopco Slitter

Work Order: CLV 57995 Coil Number: DU67587

Customer Name: MANSFIELD Heat Number: DUFNLK1559477

Product: G30 Galvanized Nov-4-15 11:17 AM to 11:57 AM (clock 40.2 min/run 19.0 min) Shift: 1

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Average Thickness and Tolerance Data
  Target 0.0580 in
                          Average<sup>0.0573</sup> in
                                                    Average - Target
                                                                           -0.0007 in (-1.26\%)
                                                    Standard Deviation^
                                                                           0.0006 in (1.03%)
                4665 ft
  Length
                                         Above High Limit
                                                                0.0610 in
  Width
              48.562 in
                                         In Tolerance
                                                                              4665 ft (100.0%)
  Weight
               44215 lbs
                                         Below Low Limit
                                                               0.0550 in
                                                                                  2 ft (
                                                                                           0.0%)
  Max Thickness 0.0588 in at
                                     213 ft
                                                     Min Thickness 0.0550 in at
                                                                                           3 ft
  Head Scrap
                            0 ft
                                                     Tail Scrap
                                                                               0
                                                                                 ft
  Statistical Process Control Data
  Upper Control Limit
                            0.0591 in
                                           Upper Tolerance Limit
                                                                          0.0610 in
  X Double Bar
                            0.0573 in
                                           R Bar
                                                                          0.0018 in
  Lower Control Limit
                            0.0555 in
                                           Lower Tolerance Limit
                                                                          0.0550 in
         60.0% (Capability Ratio %, 100/CP)
  CP
         1.667
                 (Process Capability, HiLim-LoLim/6*Sigma)
  CPK
         1.261
                 (Capability vs Limits)
                                                     TMW Ratio
                                                                      0.960 (Low Limit/Avg)
  Thickness Distribution Relative to the Target
         0.0%
+0.0100
         0.0%
+0.0090
         0.0%
+0.0080
         0.0%
+0.0070
         0.0%
+0.0060
         0.0%
+0.0050
         0.0%
+0.0040
         0.0%
+0.0030
         0.0%
+0.0020
         0.0%
+0.0010
         0.0%
+0.0000
        17.5%
-0.0010
         43.8%
-0.0020
        38.5%
-0.0030
         0.1%
-0.0040
         0.0%
-0.0050
         0.0%
-0.0060
         0.0%
-0.0070
         0.0%
-0.0080
         0.0%
-0.0090
         0.0%
-0.0100
         0.08
         0.0%
                                   12
                                              18
                                                                         33
 99.9% is within \pm 0.0020 in of the target
                                                   100.0% is within \pm 0.0050 in of the target
100.0% is within ± 0.0100 in of the target
                                                  100.0% is within \pm 0.0200 in of the target
                           Thickness vs Length (Coil Number DU67587)
63.0
62.0
61.0
60.0
59.0
58.0
56.0
55.0
54.0
53.0
            500
                     1000
                              1500
                                        2000
                                                 2500
                                                           3000
                                                                                                5000
                                                                    3500
                                                                             4000
                                                                                      4500
```

Gauge readings provided by Advanced Gauging Technologies, L.L.C. Plain City, OH 43064 USA Tel:(614) 873-6691

Feet

Jemison Metals On-The-Job (OJT) Group Training Form

EMAIL completed form to HR for filing. Maintain original on location.

Continual Learning is key to Continual Improvement in the JM QMS. This Form recognizes that:

(Attendees):					
Print Name	Initial	Print Name	*	Initial	
Tom Rodriguez	TR.	349218 FEWER	aln	J.	
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		2	-		
			Ţ.		
- 93					
have successfully completed OJ	Γ for:				
Department: Loopco Sil	oter	· · · · · · · · · · · · · · · · · · ·	e		
Subject: 11/04/15 Process A	holit.	- Messiry width	n of all cuts	out the	beliming of the job.
Training Start Date:					
Training Completion Date:	11/1	1/15	·		

According to this document, the OJT for these individuals have been trained and have demonstrated sufficient competence to conduct the documented function/task without further instructions. Continued performance evaluation and observation could result in additional training being specified.

Signature of Trainer: