Subject: Cleveland Process Audit

Date: November 24, 2015

Completed By: Steve Busicnki

On November 24, 2015, work order CLV 58223 was ran on the CR2 for Unified. Tag 67890 was verified prior to loading and use of the coil. One of the first pieces was measured for length, width and square using tape measure 1. Flatness was checked against the flatness table 092726 and the step gauge ST2 was available. Bow was checked at this time as well. The materials thickness was measured at both edges and the crown using micrometer ASP016. The same checks were done using the same devices for one of the pieces from the second bundle. The last bundle was just being completed when the shift ended and the last bundle had not yet been checked. Last bundle measurements are listed on the Quality Checklist and they are within the customer's specifications. Based on the gauge report, 95.5% of the gauge was within the customer range, with 4.5% representing the edge drop off associated with the edge of the steel. Micrometer readings verified material to be within specification.

### Measuring Tools:

Tape – 1 last calibration 09/15 calibration due 12/15

Micrometer – ASP016 last calibration 11/15 calibration due 12/15

Flatness Table – 092726 last calibration 11/25/14 calibration due 11/25/19

Step Gauge – ST2 last calibration 03/11/15 calibration due 03/11/17

Controlled Documents:

CLV-RB-002 rev date 03/07/13

JDM13 rev date 11/30/12

# Part Spec/PO Audit Form

Cust #	2801	Customer	Unified				
Equip/Plant	PWC CR2	Work Order #	CLV 58223	Date	11/24/2015		
Work	Order Information		Material to be Used				
		Tag #1	67890	Tag #2			
		PO#	22062-001	PO#			
Gauge Range	0.0236 - 0.0316	Gauge Min	.0236 Min	Gauge Min			
Width Range	48.0000 - 48.2500	Width	48.0000"	Width			
Length Range	144.0000 - 144.1250						
Rockwell		Rockwell		Rockwell			
Tensile							
Yield		A653 Galvannea	A653 Galvannealed				
% Elongation		Coil CS-B	Coil CS-B				
Chem Rqmts		CT Dry					
Other Rqmts		.0236 Min X					
Bow	0.0025	48.0000"					
Flatn	0.0013						
		1pcs 12,890lbs					
Summary							
Actions							
Final Status							

# Part Spec/PO Audit Form

Grp/Sz/Grd/Wdth	GNS/0.0276/CB40CD/48.0000			
Part No.	ST SHT1150			
	Ac	tual		
Gauge #1	0.024	Gauge #2		
% Gauge In Spec	95.50%	% Gauge In Spec		
Low/High Gauge	0.0231/0.0245	Low/High Gauge		
Average	0.0239	Average		
Width	48.0000	Width		
Length	144.0310	Length		
Rockwell		Rockwell		
Other				

JDM 13

Master Tag # くつら90 Date: 11-24-15 Tag Weight: Customer: ( Con the 013,6 Type: (3)CC-40C Ordered RB: Work Order # 56223 Machine # illa-

			_	
Last piece of 1st bundle	2796	Skid Tag#		
524°	1460	Edge	· (327 6	Ga
460	he0	Crown		Gauge Tolerance
120	160	Edge	-0316	се
48.00	48.60	¥8 Width	01	Width Tol:
96.062	94.062	144 96 Length	1 1 20	Length Tol:
062	067	Square	Man	Square Tol:
021.3	6.120	Flatness	: 13	Flatness Tol:
T	In me	Inspected By		
11-14	76-11	Date		

			2797	Skid Tag#
			7	Edge
			740	Crown
			 24	Edge
		-	150.461 00 8h J	Width
				Length
			631	Square
			2.120	Flatness
		٠	Om ine	Inspected By
			hell	Date

0

	Last piece of last bundle	2799	Skid Tag#
	1160	400	Edge
	Jeso	peo	Crown
	400	400	Edge
	48.00	48.00	Width
	144.071	144:03)	Length
	062	662	Square
	-13	13	Flatness
0	Dex	On me	Inspected By
1	11-28	11-24	Date

### AGT400 Coil Summary Report

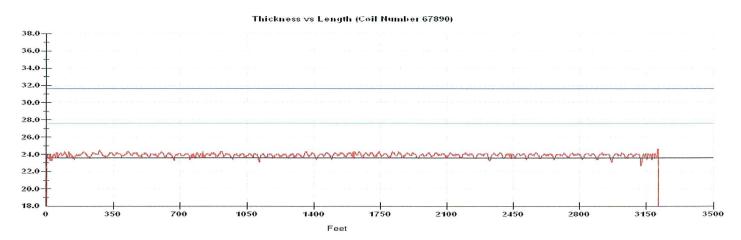
### Jemison Metals -- 75 Inch Red Bud CTL Line

Work Order: 58223 Coil Number: 67890

Customer Name: UNIFIED Heat Number: DUFUSLL63533 Vendor: DUFERCO

Product: Galvannealed Nov-24-15 12:51 PM to 1:28 PM (clock 36.6 min/ run 23.6 min) Shift: 1

#### Average Thickness and Tolerance Data Target 0.0276 in Average\* 0.0239 in Average - Target -0.0037 in (!3.33%) Standard Deviation\* 0.0002 in (0.73%) Length 3213 ft Above High Limit 0.0316 in Width In Tolerance 3067 ft ( 95.5%) 48.000 in Weight 12570 lbs Below Low Limit 0.0236 in 148 ft ( 4.5%) Max Thickness 0.0245 in at 279 ft Min Thickness 0.0231 in at 1114 ft Head Scrap 10 ft Tail Scrap 40 ft Statistical Process Control Data 15.0% (Capability Ratio %, 100/CP) CR CP 6.667 (Process Capability, HiLim-LoLim/6\*Sigma) CPK 0.533 (Capability vs Limits) TMW Ratio 0.987 (Low Limit/Avg) Thickness Distribution Relative to the Target 0.0% +0.0050 0.0% +0.0045 0.0% +0.0040 0.0% +0.0035 0.0% +0.0030 0.0% +0.0025 0.0% +0.0020 0.0% +0.0015 0.0% +0.0010 0.0% +0.0005 0.0% +0.0000 0.0% -0.0005 0.0% -0.0010 0.0% -0.0015 0.0% -0.0020 0.0% -0.0025 0.0% -0.00300.0% -0.003527.1% -0.0040 68.48 \*\*\*\*\*\*\*\* -0.0045 4.5% 0.0% -0.00500.0% 9 12 21 27 6 15 18 24 30 33 0.0% is within $\pm 0.0010$ in of the target 0.0% is within $\pm 0.0025$ in of the target 100.0% is within $\pm$ 0.0050 in of the target 100.0% is within $\pm$ 0.0100 in of the target



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