Subject: Cleveland Process Audit

Date: August 17, 2015

Completed By: Steve Busicnki

On August 17, 2015, work order CLV 57030 was ran on the CR2 for The Sheet. Tag DU67255 was verified prior to loading and use of the coil. There were a number of different sizes ran for this customer on this job. One of the first pieces produced was measured for length, width, square, flatness and wave. One of the first pieces for the next size was measured for length, width, square, flatness and wave. The last piece of this bundle was measured for length and width. The first piece of the third bundle was measured for length, width, square, flatness, wave and the gauge was measured manually. The last piece of this bundle was measured for length and width. The first piece of the fourth bundle was measured for length, width, square, flatness and wave. The same was done for the sixth and eighth bundles. The final bundle was checked measured for length, width, square, flatness and wave. Based on the gauge report, 82.4% of the material was within specification with an average thickness of 0.1720. This average is within the customers specification of 0.1713 – 0.1873.

Part Spec/PO Audit Form

Cust #	5922	Customer	The Sheet			Grp/Sz/Grd/Wdth	Grp/Sz/Grd/Wdth POS / 0.1713 / CSBTP / 100.0000	/ 100.0000	
Equip/Plant	PWC CR2	Work Order #	CLV 57030	Date	8/17/2015	Part No.	HRPO 7GA 41 X 100		
Work (Work Order Information		Material to	o be Used			Aci	Actual	
		Tag #1	DU67255	Tag:#2		Gauge #1	DU67255	Gauge #2	
		PO#	21943-001	PO#		% Gauge in Spec	82.40%	% Gauge In Spec	
Gauge Range	0.1713 - 0.1873	Gauge Min	.1683 Min	Gauge Min		Low/High Gauge	0.1612 / 0.1803	Low/High Gauge	
Width Range	Width Range 40.9700 - 41.0300	Width	41.3750"	Width		Average	0.172	Average	
Length Range	ength Range 99.9400 - 100.0600				-	Width	41.0000	Width	
Rockwell		Rockwell		Rockwell		Length	100.000	Length	
Tensile						Rockwell		Rockwell	
Yield		A1001 HRPO Coil							
% Elongation		CS Type B Temp							
Chem Rqmts		Pass							
Other Ramts		.1683 Min X							
Wave	0.0018	41.3750"				Other			
Flatness	0.0018								
Square	0.0018								
Summary									
Actions									
Final Status	:								

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· Santa	Master Tag #. TV 10つ255	Date: &~! > ~! S
()	Tag Weight: 多多县合金	Customer: THE SA
	Type: PC	호근수 Work Order# < 가야?
	Ordered RB:	Machine #

	Last piece of 1st bundle	543	Skid Tag#		
	1st (77)	177	# Edge	-	
		173	Crown	35	Gauge Tolerance
	172	1772	Edge	1873	ice
	41.00	41.00	₩idth	0%	Width Tol:
	32.050	32.984	3% Length /6:2	1 060	Length Tol:
	96 A	S	Square	Où	Square Tol:
	52.1.7	C 1220	Flatness	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Flatness Tol:
1	Just Color	My wat	Inspected By		
	8-17	8-17	Date		

54838	34844	いころじ	3484C	25.52		Skid Tag#
CLI	172	177	KI	172	4.7.2	Edge
324	173	/23	173	173	1.53	Crown
66	172	177	THE WAR	177	175	Edge
30.14	4/200	41.00	41.00	4/100	71.00	Width
90,00	96.50	96.50	100.00	102.00	080 36	Length
490	620	071	073	042	100	Square
65.43	026.3	2 1/20	2770	1:12	123	Flatness
	Don mo	Qual mc	Jan Wet	Lec an	Som with	Inspected By
	8-7-7	\$ -1.	8/17	ネーバ	00-17	Date

	Last piece of last bundle	5484	Skid Tag#
۰	アーマ	173	Edge
	(73	173	Crown
	4-11	4.6.1	Edge
	41.00.	41.00	Width
100	90.031 °	90.03	Length
	-12	1	Square
0.000	721.7	22617	Flatness
	2	200	Inspected By
	(A)	SS CONTRACTOR OF THE PARTY OF T	Date

AGT400 Coil Summary Report

Jemison Metals - 75 Inch Red Bud CTL Line

Work Order: 57030 Coil Number: DU67255

Customer Name: THE SHEET Heat Number: DUFNLK1560071 Vendor: DUFERCO

Aug-17-15 9:01 AM to 10:49 AM (clock 108.0 min/run 27.2 min) Shift: 1 Product: H.R.P.O. Steel

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Average Thickness and Tolerance Data
                                                                                                                                                                                 =0.0073 in (-4.098)
   Target 0.1793 in
                                                            Average* 0.1720 in
                                                                                                                            Average - Target
                                                                                                                                                                                 0.6020 in (T.13%)
                                                                                                                            Standard Deviation*
                                    1654 ft
                                                                                                Above High Limit
   Length
                                                                                                                                                                                           1363 Et 1 82.48
   Width
                               41.000 in
                                                                                                 In Tolerance
                                                                                                                                                                                              292 ft ( 17.6%)
   Weight
                                  39747 lbs
                                                                                                 Below Low Limit
                                                                                                                                                       0.1713 in
   Max Thickness 0.1803 in at
                                                                                                                              Min Thickness 0.1612 in at
                                                                                                                                                                                                                1042 ft
                                                                                           48 ft.
   Head Scrap
                                                               15 ft
                                                                                                                              Tail Scrap
                                                                                                                                                                                              4 ft
   Statistical Process Control Data
   Upper Control Limit
                                                                                                      Upper Tolerance Limit
                                                                             20 10
                                                                                                      R Bar
   X Double Bar
                                                                  0.1659 in
                                                                                                                                                                                0.1713 in
   Lower Control Limit
                                                                                                     Lower Tolerance Limit
                    76.1% (Capability Ratio %, 100/CP)
   CP
                    1.314
                                       (Process Capability, HiLim-LoLim/6*Sigma)
                                                                                                                                                                       0.996(Low Limit/Avg)
   CPK
                    0.110
                                       (Capability vs Limits)
                                                                                                                             TMW Ratio
   Thickness Distribution Relative to the Target
¥0.0100
0000 D+
:0.0070
                    0.18
                   14. Au - 中文大学中国中央全国企业工作,发展工作中央企业工作的企业
                   40.0%
                              · 远海,我有我们是我的是我不是不知识,我不知识的,我们的,我们的,我们的,我们的人们的,我们的人们的人们的,我们们的人们的人们的人们的人们的人们的人们的人们的人
                         $$   其美人,有有多点,有有的大声声,如其是自己有点的自己有用的的有意的声,如此如此是自由的是自由
-0.0090
                    8.6% -----
                     1.9% ----
-0.0100
                     7.18 -----
       ---
                                            3 6
                                                                       9
                                                                                  12
                                                                                               15
                                                                                                             18
                                                                                                                          21
                                                                                                                                      24
                                                                                                                                                    27
                                                                                                                                                                 30
                                                                                                                                                                              33
   0.2% is within ± 0.0020 in of the target
                                                                                                                              1.4% is within ± 0.0050 in of the target
                                                                                                                        100.0% is within ± 0.0200 in of the target
 92.9% is within ± 0.0100 in of the target
                                                                           Thickness vs Longth (Coll Humber D967255)
194.0
194.0
190.0
105.0
182.0
170.0
176.0
                                                     Televisiation of the Annex stee Annex to a confidence of the content of the conte
164.0
                                                                                                                                                                                                                 1800
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Gauge readings provided by Advanced Gauging Technologies, L.L.C. Plain City, OH 43064 USA Tel:(614) 873-6691