

Tracking Quality Since 1997 With GE – Appvion

Build your brilliant industry - ensure product quality and drive productivity

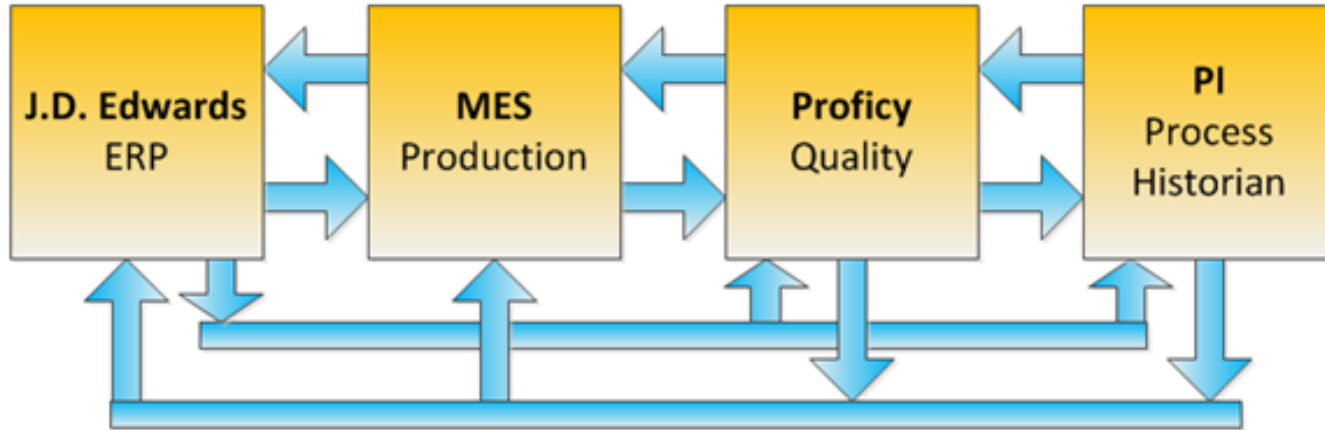
September 30, 2015

Appvion is headquartered in Appleton, WI. We operate a pulp and paper mill in Roaring Spring, PA, and converting plants in West Carrollton, OH and Appleton, WI.

Products we make

- Thermal Paper – Point of Sale, Gaming, Entertainment, Label, etc.
- Carbonless Paper – NCR brand in both rolls and sheets
- Security Papers – Custom watermarks (Docucheck, Documark)
- Specialty Papers – Colored Papers, Inkjet, Digital and Fluorescents

Integration Is The Key To Quality!



Business Problem

Major customer rejecting our thermal rolls for bad quality. This was based on their new web inspection camera system that could detect holes, dye streaks, etc.

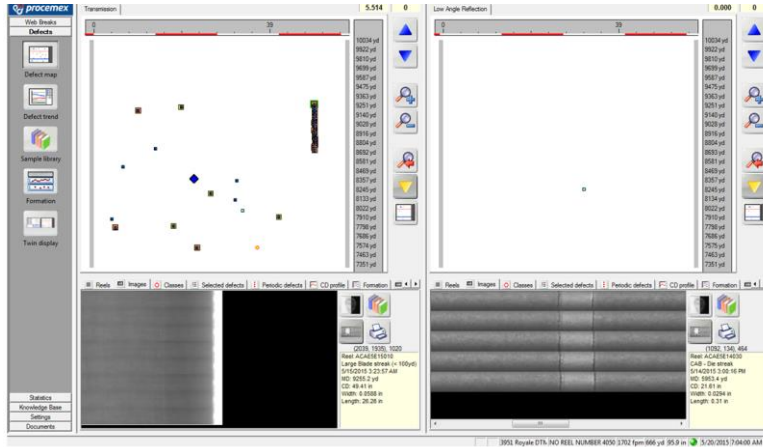
Background

Historically samples were taken at the end of a roll. This paper was tested as a 'sample' for the quality of the entire roll. This method was not going to be good enough any more!

Actions taken

Three Procemex web inspection high speed camera systems were purchased. A great improvement in detecting defects on the entire roll as it was being coated ... but what to do with all the data?

Make the systems talk and set standards!



Int Applications Client - 131 CM Running Full

36 Jobs Done Active: 0/0/0/0/0/0

Job Display: 10 CM Running Rate

D	F	Y	Z	AA	AB	AC
0	OUT TERN	ACAE SE 20010	ACAE SE 20011	ACAE SE 20012	ACAE SE 20013	ACAE SE 20014
	Date	29 May 2015	29 May 2015	29 May 2015	29 May 2015	29 May 2015
	Time	03:26:51	03:41:00	04:01:14	04:21:20	04:41:16
1	Product	MED201	MED201	MED201	MED201	MED201
1	Status	Approved	Approved	Approved	Approved	Approved
	Tag Units	4.71	1.2	2.3	2.3	7.1
16	IX Hood Large Blinds Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
16	IX Hood Hinge Blinds Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
16	IX CAB Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
17	IX Hood Cooling Vent 4 Fan Snd	Reason:RTI	0.0	0.0	0.0	0.0
18	IX Hood Cooling Vent 8 Fan Snd	Reason:RTI	0.0	0.0	0.0	0.0
19	IX Hood Cooling Vent 4 to 8 Fan Snd	Reason:RTI	0.0	0.0	0.0	0.0
20	IX Hood Small Dark Sndk Snd	Reason:RTI	0.0	0.0	1.2	0.0
1	IX Hood Medium Dark Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
2	IX Hood Large Dark Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
3	IX Hood Hinge Dark Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
4	IX Small Dark Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
5	IX Small Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
6	IX Small Hole Snd	Reason:RTI	0.0	0.0	0.0	0.0
7	IX Small Light Spot Snd	Reason:RTI	0.0	1.2	1.2	0.0
8	IX Unknown Snd	Reason:RTI	0.0	0.0	0.0	0.0
9	IX Unknown Defect	Reason:RTI	0	0	0	1
Common IA Variables						
11	IA Bare Snd	Reason:RTI	0.0	0.0	0.0	0.0
12	IA CAB Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
13	IA Fan Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
14	IA Hinge Dark Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
15	IA Hinge Gray Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
16	IA Hinge Hole Snd	Reason:RTI	0.0	0.0	0.0	0.0
17	IA Hinge Light Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
18	IA Large Dark Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
19	IA Large Gray Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
20	IA Large Hole Snd	Reason:RTI	0.0	0.0	0.0	0.0
21	IA Large Light Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
22	IA Light Sndk Snd	Reason:RTI	0.0	0.0	0.0	0.0
23	IA Light Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
24	IA Medium Dark Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
25	IA Medium Gray Spot Snd	Reason:RTI	0.0	0.0	0.0	0.0
26	IA Medium Hole Snd	Reason:RTI	0.0	0.0	0.0	0.0

Recap: More than a quality system

- Quality Assurance and product disposition
- Regulatory compliance-Volatile chemicals reporting
- Interfaces with Procemex, JDE, PI, MES, Rockwell
- Operator alarms and standards. Specifications for all products!
- Product summarization (used in machine startup standards)
- Web reporting – COA for customers
- Excel Add-in used by almost everyone!





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