Valmet SP 取代旋轉式濃度傳訊器成功實績 二

DATE : 13/10/1999 to 19/10/1999 **COMPANY** : UNITED PAPER INDUSTRIES

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CONTACT PERSONS: Mr. Eric Tan Cheng Seng (As Maintenance Manager / Electrical Division)

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PARTICIPANT : -

DONE BY : Mr.Arto Leinonen (Neles Automation Bangkok)
Agus Eko Hs (Neles Automation Indonesia)

VISIT PERPOSE : Performance test of Smart-Pulp Consistency Transmitter that has been install for trial

After Machine Chest No.19

RESULT :

Job Description

Before collect the few samples for analysis to LAB

- To observed Smart-Pulp measurement it was hunting up-down from +/- 2.30 % to +/- 5.98 % while from this condition I check the power supply it was drop until +/- 13.60 VDC (The Smart-Pulp need power supply 18 VDC to 35VDC).
- Because the power supply it was drop the consistency indicating was blinking and then I turn-off the power supply for at the moment and turn-on again.
- While the load resistor used (1000 Ohm & ½ Watt) for beginning power-up the Smart-Pulp measurement it was stable by meant the output power supply from +/- 30.70 VDC become to +/- 18.45 after connected to Smart-Pulp and load resistor.
- However after +/- 10 minute the load resistor become heat and power supply drop again until 13.60 VDC and also the Smart-Pulp measurement blinking and hunting again.
- From above case I tried to solve the problem by exchange the load resistor from (1000 Ohm & ½ Watt) to (500 Ohm & 1 Watt).
- After exchange above the load resistor, output power supply from +/- 30.70 VDC become to +/- 22 VDC after connected to Smart-Pulp and now the Smart-Pulp measurement become stable.
- To collect few samples for analysis to LAB and from average analysis result compared with Smart-Pulp measurement the different it was +/- 0.1 %.

Check configuration & Calibration parameter.

To check configuration at recipe number 3 as process data required or as follows:

RECIPE No.3

Lower range
Upper range
Damping
Units
Gram & Celsius
Mounting
Blade type
2.00 %
4.50 %
Second
Gram & Celsius
Vertical Upward
RL AISI

- To check calibration parameter with two-samples point at recipe number 3 as follows:

-Recipe number : 3 - Pulp type : RCFS - Ash : 0.0 % - P1 : 0.915 - P2 : 0.427

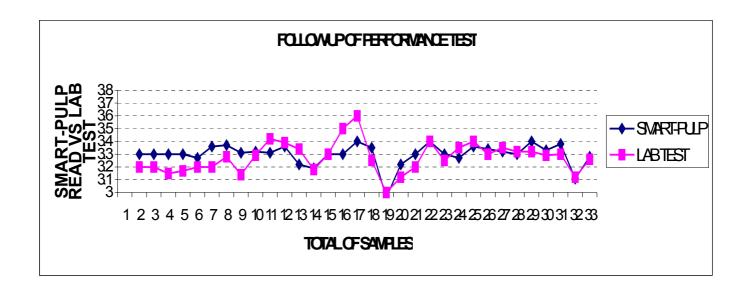
- But to prevent the next problems Mr.Eric Tan asked the old one power supply to exchanged with switching system power supply and load resistor from (500 Ohm & 1 Watt) to (250 Ohm & 2 Watt).
- And after exchange above the power supply and load resistor the output powers supply from +/- 24 VDC become to +/- 21.92 VDC after connected to Smart-Pulp and now the Smart-Pulp measurement become stable.
- To collect few samples again for analysis to LAB and from average analysis result compared with Smart-Pulp measurement the different it was +/- 0.11 %.
- On Thursday 14 October 1999 in the morning the machine it has shutdown +/- 16 Hrs and it will start-up at 21:00 PM.

Follow-up

While the machine beginning start-up at 21:00 PM until 05:00 AM in the morning,

- I collect few samples for analysis to LAB and from average analysis result compared with Smart-Pulp measurement and average different it was +/- 0.03 to 0.09 %. Please see below result.

No.	DATE	TIME	SMART-PULP	I AR TEST	Each	Aver.	PULP TYPE	PRODUCTS
110.	DATE	111111	OWN THE TOLK	LAD ILOI	Error	Error	RECYCLE	11000010
1	13/10/99	16:30	3.3	3.2	0.1	0.023125	ONP = 100 %	GCB' 0'
2	13/10/99	20:30	3.3	3.2	0.1		ONP = 100 %	GCB' 0'
3	13/10/99	23:50	3.3	3.15	0.15		ONP = 100 %	GCB' 0'
4	13/10/99	04:30	3.3	3.17	0.13		ONP = 100 %	GCB' 0'
5	14/10/99	21:45	3.27	3.2	0.07		ONP = 100 %	GCB' 0'
6	14/10/99	22:20	3.36	3.2	0.16		ONP = 100 %	WLCB
7	14/10/99	23:50	3.37	3.28	0.09		ONP = 100 %	WLCB
8	15/10/99	24:35:00	3.31	3.14	0.17		ONP = 100 %	WLCB
9	15/10/99	01:10	3.32	3.29	0.03		ONP = 100 %	WLCB
10	15/10/99	02:20	3.31	3.42	-0.11		ONP = 100 %	WLCB
11	15/10/99	03:10	3.36	3.39	-0.03		ONP = 100 %	WLCB
12	15/10/99	04:10	3.22	3.34	-0.12		ONP = 100 %	WLCB
13	15/10/99	05:00	3.19	3.18	0.01		ONP = 100 %	WLCB
14	16/10/99	09:10	3.3	3.3	0		ONP = 100 %	WLCB
15	16/10/99	11:10	3.3	3.5	-0.2		ONP = 100 %	WLCB
16	16/10/99	20:30	3.4	3.6	-0.2		ONP = 100 %	WLCB
17	16/10/99	23:40	3.35	3.25	0.1		ONP = 100 %	WLCB
18	16/10/99	01:50	2.96	3	-0.04		ONP = 100 %	WLCB
19	16/10/99	05:30	3.22	3.12	0.1		ONP = 100 %	WLCB
20	17/10/99	08:30	3.3	3.2	0.1		ONP = 100 %	WLCB
21	17/10/99	10:15	3.4	3.4	0		ONP = 100 %	WLCB
22	17/10/99	12:30	3.3	3.25	0.05		ONP = 100 %	WLCB
23	17/10/99	18:00	3.27	3.35	-0.08		ONP = 100 %	WLCB
24	17/10/99	21:30	3.36	3.4	-0.04		ONP = 100 %	WLCB
25	18/10/99	11:30	3.34	3.3	0.04		ONP = 100 %	WLCB
26	18/10/99	12:30	3.32	3.35	-0.03		ONP = 100 %	WLCB
27	18/10/99	13:20	3.3	3.32	-0.02		ONP = 100 %	WLCB
28	18/10/99	14:00	3.4	3.32	0.08		ONP = 100 %	WLCB
29	18/10/99	15:00	3.33	3.29	0.04		ONP 59%,OCC 15%,MW 26%	GCB 'A'
30	18/10/99	15:20	3.38	3.3	0.08		ONP 59%,OCC 15%,MW 26%	GCB 'A' VALVE = 0 %
31	18/10/99	15:23	3.11	3.12	-0.01		ONP 59%,OCC 15%,MW 26%	GCB 'A' VALVE = 100%
32	18/10/99	16:00	3.28	3.26	0.02		ONP 59%,OCC 15%,MW 26%	GCB 'A'



- As above follow-up test result it was clear that Smart-Pulp consistency transmitter performance is stable even the process it has running with mix pulp and Smart-Pulp consistency transmitter is available for use as consistency measurement on process line.

Prepare by: Accepted by customer:

Mr.Eric Tan has signed it this report.

(Agus Eko Herisusanto) (Mr.Eric Tan Cheng Seng)

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Mr.Eric Tan Cheng Seng (UPI / Electrical Division)