# **FSFE - DAILY PROCESS REVIEW**

Selected Production Day

30-Nov-14

### KPIs

## FOCUS FOR THE DAY:

### HIGHLIGHTS:

Task Id	Title	Task	Task by Name	Status
135	Soot Blower Repair	Repair of Soot Blower 21 - Possible trigger of re-increase of uptake deltaT	Gil T. Nepomuceno	Close
136	Service Water Interruption	Service water interruption due to LMC water pipe leak. Regular check of cooling water supply of each operations group. Target Completion 1200H	Victor M. Omega	Close
137	Substation C Airconditioning	Air conditioning failure at Substation C	Grosky P. Villarin	Close
139	Crane 2	0730H Crane 2 tripping	Gil T. Nepomuceno	Close

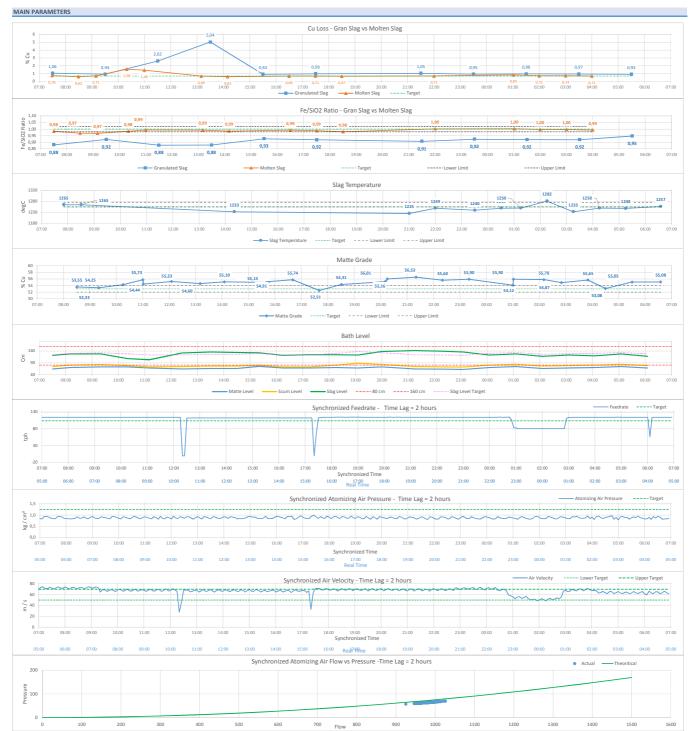
## Process KPIs

Item	Cu Loss Parameter	Range/Target	Unit	Day			% Compliance	
iteiii				Avg	Min	Max	Std	Day
1	% Cu in Granulated Slag	0,7	% Cu	1,01	0,67	5,04	0,65	5%
	% Cu in Melt Slag	0,7	% Cu	0,71	0,62	1,58	0,14	62%
3	Fe/SiO2	0.98-1.02	ratio	0,99	0,97	1,01	0,01	86%
7	Slag Temperature	above 1250	degC	1260	1197	1307	19	52%
2	Matte Grade	52% +/- 2	% Cu	54,08	11,86	59,06	5,71	27%
5	Matte + Scum Level	less than 80	cm	76	68	92	4	90%
6	Slag Level	below 50	cm	47	30	71	10	67%

## Production KPIs

Item	Production Parameters	Unit
1	Synchronized Plant Availability	%
2	Feed rate	tph
3	Cu in Feed	%
4	Dust rate	tph
5	Cu in Dust	%
6	Slag	tph
7	Ton Slag per Ton Charged Cu	ton
8	Cu in Slag	%
9	Cu Recovery	%
10	Matte	tph
11	Matte grade	%
12	Cu in Matte	tph

Day	2nd Shift	3d Shift	1st Shift
99,62%			
110	113	109	106
23,4%	23,8%	22,8%	23,4%
2,5	1,9	3,2	2,6
27,4%	27,7%	27,4%	27,1%
38	47	31	36
1,4	1,7	1,2	1,4
1,47%	1,94%	1,43%	0,90%
97,9%	96,7%	98,3%	98,7%
50	47	50	52
55,19%	53,86%	56,13%	55,49%
27,4	25,4	28,0	28,9



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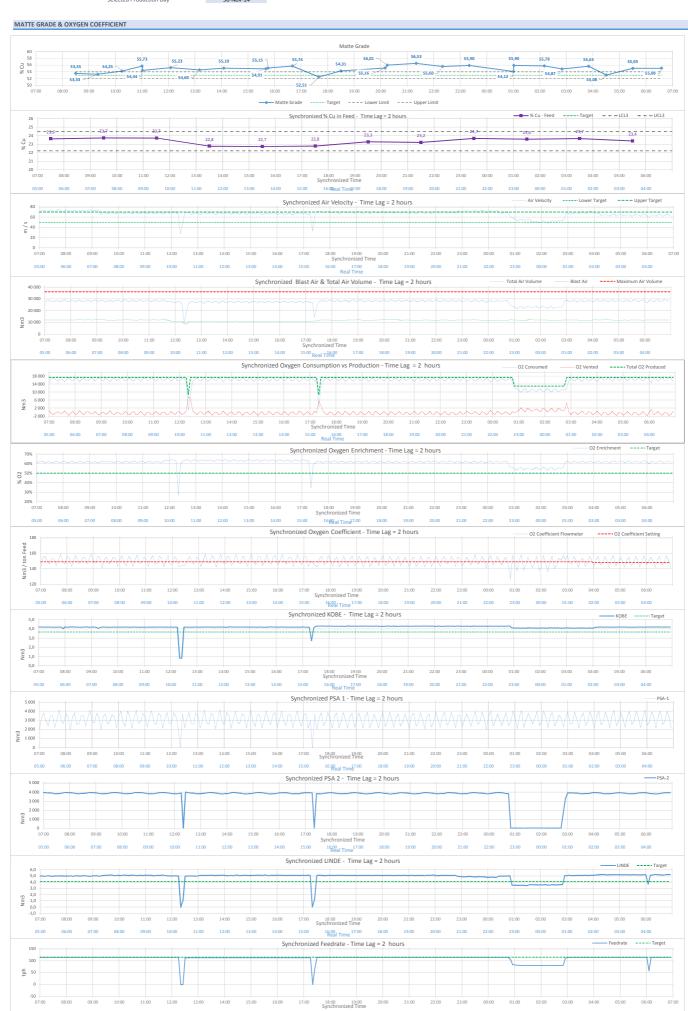
30-Nov-14

# FE / SIO2 RATIO



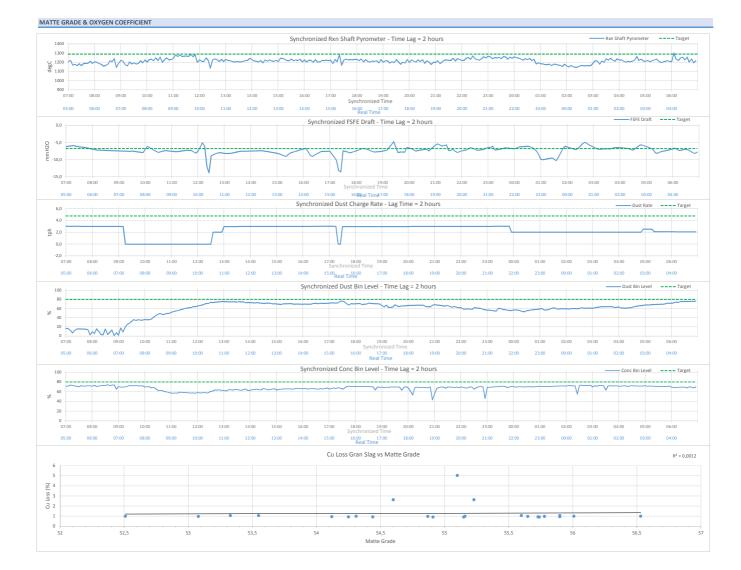
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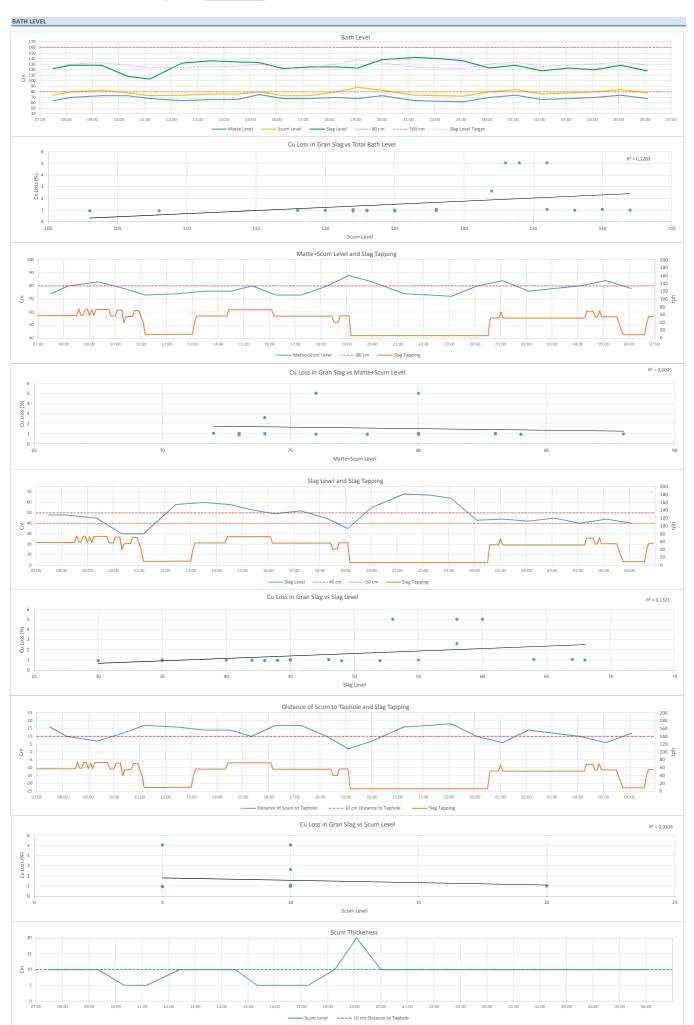


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Selected Production Day



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**FSFE - DAILY PROCESS REVIEW** 30-Nov-14 Selected Production Day TEMPERATURE 1280 1260 00 1240 -1220 17:00 Slag Temperature ----- Target ---- Lower Limit ---- Upper Limit Cu Loss in Gran Slag vs Slag Temperature Cu Loss (%) Synchronized Rxn Shaft Pyrometer - Time Lag = 2 hours 1300 1250 -1100 1050 Synchronized Atomizing Air Pressure - Time Lag = 2 hours ----- Target 1,0 ₩ 0,4 0,2 Synchronized Atomizing Air Flow vs Pressure - Time Lag = 2 hours 200 150 Synchronized Rxn Shaft Flow and Pressure - Time Lag = 2 hours 350 O 300 300 E 250 E 200 150 100 50 30000 25000 25000 House 15000 10000 House 15000 10000 House 15000 House 5000

23:00

21:00 22:00 23:00

00:00 01:00 02:00

25000

22:00

16:00 17:00 18:00 19:00 20:00 Real Time

Synchronized Rxn Shaft Pressure vs Flow - Time Lag = 2 hours

20000 Flow, Nm3/hr

05:00

04:00

02:00 03:00 04:00

30000

11:00 12:00

09:00 10:00 11:00

13:00 14:00

09:00 10:00

07:00

05:00

15:00 16:00 17:00

15000

12:00 13:00 14:00 15:00 18:00

Selected Production Day



