

FSFE - WEEKLY PROCESS REVIEW

Selected Production Day

30-Nov-14

PROCESS KPIs

HIGHLIGHTS

FOCUS FOR THE WEEK

Task Id	Title	Task	Task Entered Date	Task by Name	Task by Department	Status
108	Bag Filter	Replace the ff.: 1) Solenoid Valve 2.) Back wash valve	2014-11-24	Mon Philip J. Macalua	Smelter Maintenance	Close
109	BC-A26	Re-Vulcanize the damage(striped) conveyor belt.	2014-11-24	Mon Philip J. Macalua	Smelter Maintenance	Close
110	BL-D03	Testing on 11/24 1:00 PM	2014-11-24	Gil T. Nepomuceno	OM-Smelter Maintenance	Close
111	NERIN EP	Provision of Power Supply for the Damper	2014-11-24	Edmundo B. Gloria	Electrical Zone 1	Close
113	Bag Filter	OS; Backwash valve leak	2014-11-25	Mon Philip J. Macalua	Smelter Maintenance	Close
115	Trimbin	Trimbin high feed fluctuations 1. Material discharging 2. Inspection 3. Communicate with Outotec	2014-11-25	Marvin C. Piñon	OM- Instrumentation	Close
118	Nerin EP rotary damper	Frequent tripping	2014-11-26	Mon Philip J. Macalua	Smelter Maintenance	Close
121	Nerin EP Rotary Damper	Repair of Nerin EP Rotary damper	2014-11-27	Mon Philip J. Macalua	Smelter Maintenance	Close
122	Concentrate Heaping	Investigation/RCA of concentrate heaping; (includes flushing encountered that resulted to heaping & blend composition)	2014-11-27	John Joven S. Chiong	OAVP-Optns & Process Optimization	Close
123	CC-H15	Repair of CC-H15 cut off conveyor	2014-11-27	Mon Philip J. Macalua	Smelter Maintenance	Close
124	FD EP Conveyors 31A and 31B	Ceiling Leak at FD EP affecting conveyors 31A and 31B	2014-11-27	Mon Philip J. Macalua	Smelter Maintenance	Close
127	CC-H32	Repair of CC-H32 cyclo drive; recon spare ready for installation	2014-11-28	Mon Philip J. Macalua	Smelter Maintenance	Close
128	Uptake deltaT	Deteriorating Uptake Delta T; For uptake accretion removal 1500H today.	2014-11-28	Allan Jr C. Jarantilla	FD/ FSFE	Close
129	DCB Level Sensor	Check/confirm level sensor readings vs actual; Check up of sensor by instrumentation.	2014-11-28	Allan Jr C. Jarantilla	FD/ FSFE	Close
135	Soot Blower Repair	Repair of Soot Blower 21 - Possible trigger of re-increase of uptake deltaT	2014-11-30	Gil T. Nepomuceno	OM-Smelter Maintenance	Close
137	Substation C Airconditioning	Air conditioning failure at Substation C	2014-11-30	Grosky P. Villarin	MEMS	Close

Item	Cu Loss Parameter	Range/Target	Unit	Week				% Compliance							
				Avg	Min	Max	Std	Week	11-30	11-29	11-28	11-27	11-26	11-25	11-24
1	% Cu in Granulated Slag	0.7	% Cu	0.98	0.67	5.04	0.61	6%	0%	0%	0%	0%	38%	11%	
	% Cu in Melt Slag	0.7	% Cu	0.71	0.62	1.58	0.13	60%	33%	64%	85%	38%	59%	93%	50%
3	Fe/SiO2	0.98-1.02	ratio	0.99	0.97	1.01	0.01	88%	87%	93%	100%	100%	53%	93%	100%
7	Slag Temperature	above 1250	degC	1258	1197	1307	20	50%	38%	38%	69%	69%	35%	70%	33%
2	Matte Grade	52% +/- 2	% Cu	54.23	11.86	59.06	5.42	25%	15%	4%	32%	21%	41%	33%	8%
5	Matte + Scum Level	less than 80	cm	75	67	92	4	98%	96%	100%	100%	96%	100%	92%	100%
6	Slag Level	below 50	cm	48	30	71	10	48%	50%	28%	54%	57%	48%	54%	45%

PRODUCTION KPIs

Item	Production Parameters		Unit	Week								% Compliance							
	Week	11-30	11-29	11-28	11-27	11-26	11-25	11-24	Week	11-30	11-29	11-28	11-27	11-26	11-25	11-24			
1	Synchronized Plant Availability	%		98.13%	99.62%	100.00%	91.83%	98.69%	99.50%	98.17%	99.07%								
2	Feed rate	tph		106	110	93	103	109	109	109	109								
3	Cu in Feed	%		23.5%	23.4%	23.5%	23.2%	23.6%	23.5%	23.3%	23.8%								
4	Dust rate	tph		2.8	2.5	2.4	1.7	3.4	2.5	2.6	4.3								
5	Cu in Dust	%		27.1%	27.4%	27.1%	26.9%	27.0%	27.0%	27.1%	27.1%								
6	Slag	tph		43	38	40	44	46	43	48	40								
7	Ton Slag per Ton Charged Cu	ton		1.7	1.4	1.8	1.8	1.7	1.6	1.8	1.5								
8	Cu in Slag	%		0.91%	1.47%	0.77%	1.02%	0.94%	0.75%	0.72%	0.74%								
9	Cu Recovery	%		98.5%	97.9%	98.6%	98.2%	98.4%	98.8%	98.7%	98.9%								
10	Matte	tph		47	50	41	45	49	49	41	52								
11	Matte grade	%		54.97%	55.19%	56.39%	54.35%	54.09%	54.46%	54.99%	55.47%								
12	Cu in Matte	tph		25.7	27.4	23.1	24.6	26.5	26.5	22.6	28.8								

DOWNTIME REASONS

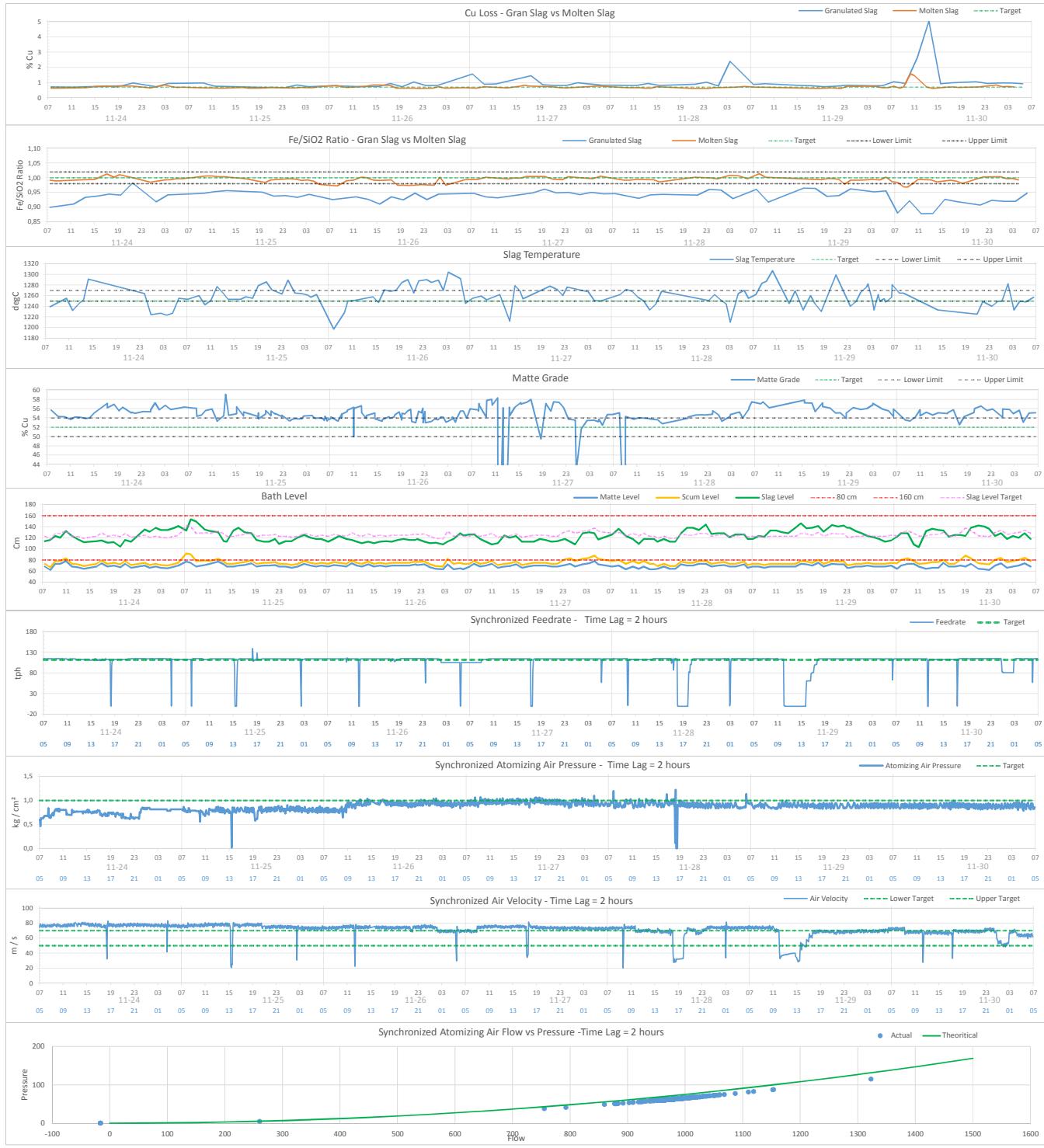


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MAIN PARAMETERS



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FE / SIO₂ RATIO

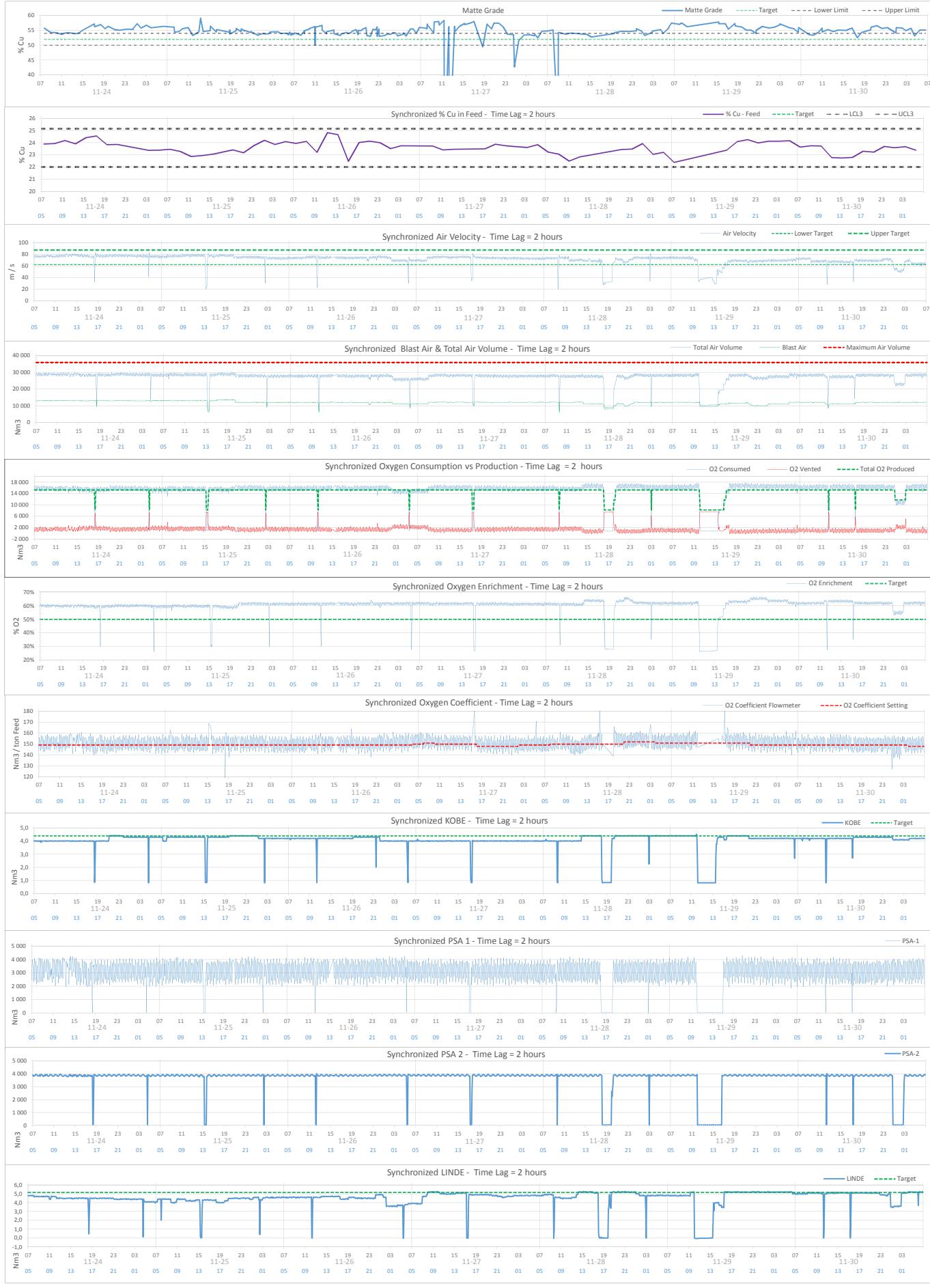


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MATTE GRADE & OXYGEN COEFFICIENT



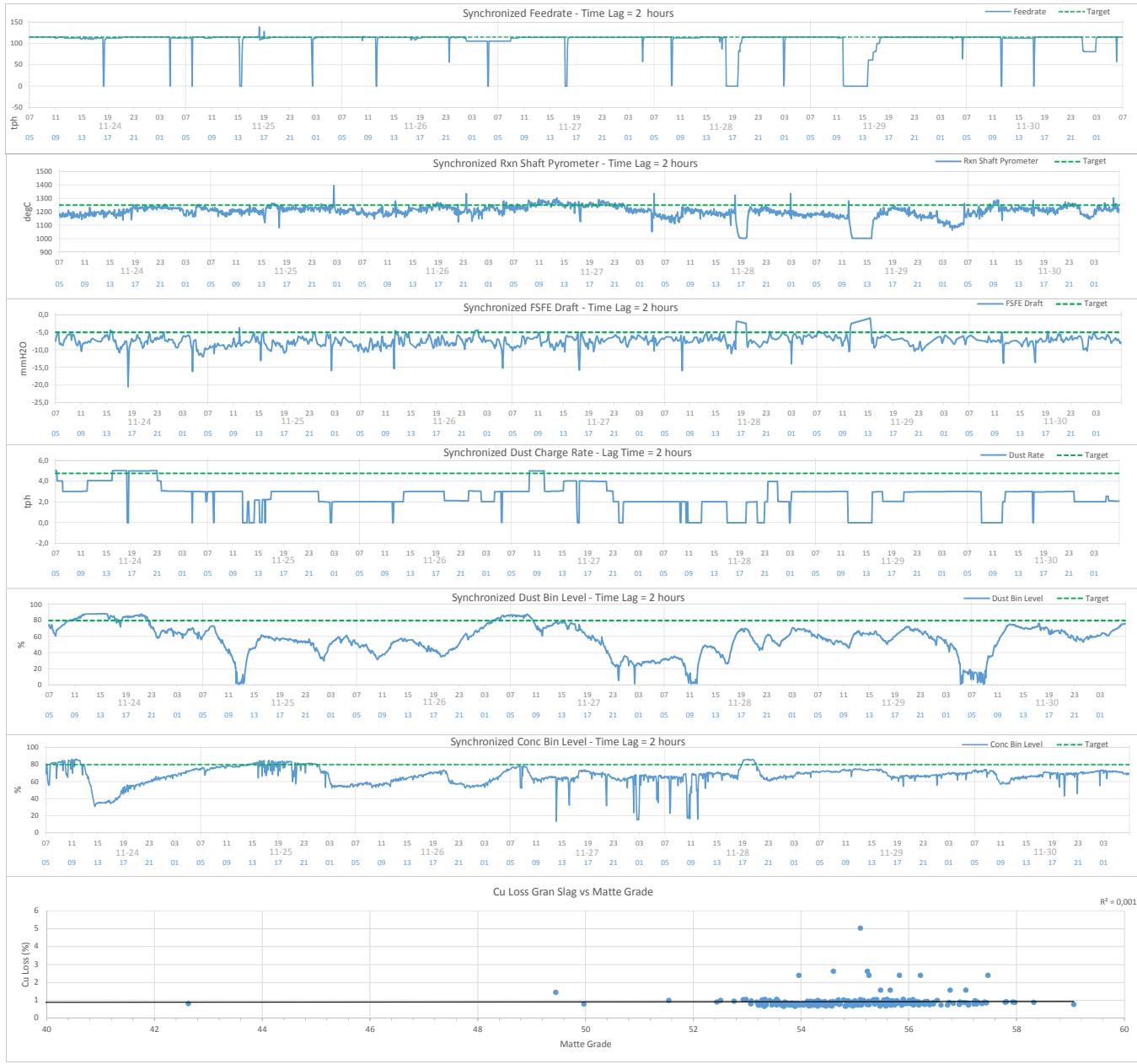
Time Legend

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MATTE GRADE & OXYGEN COEFFICIENT



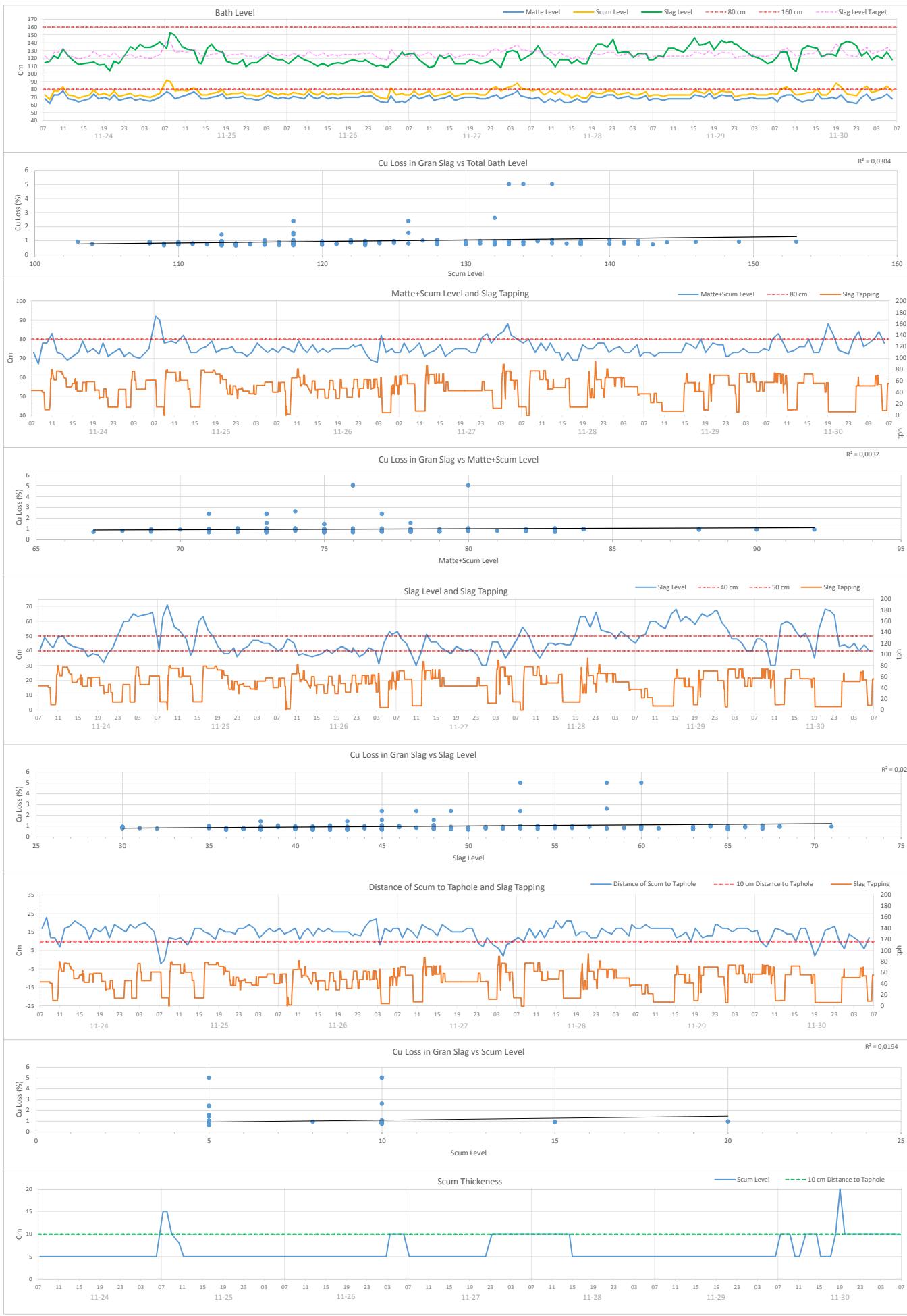
Time Legend

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BATH LEVEL



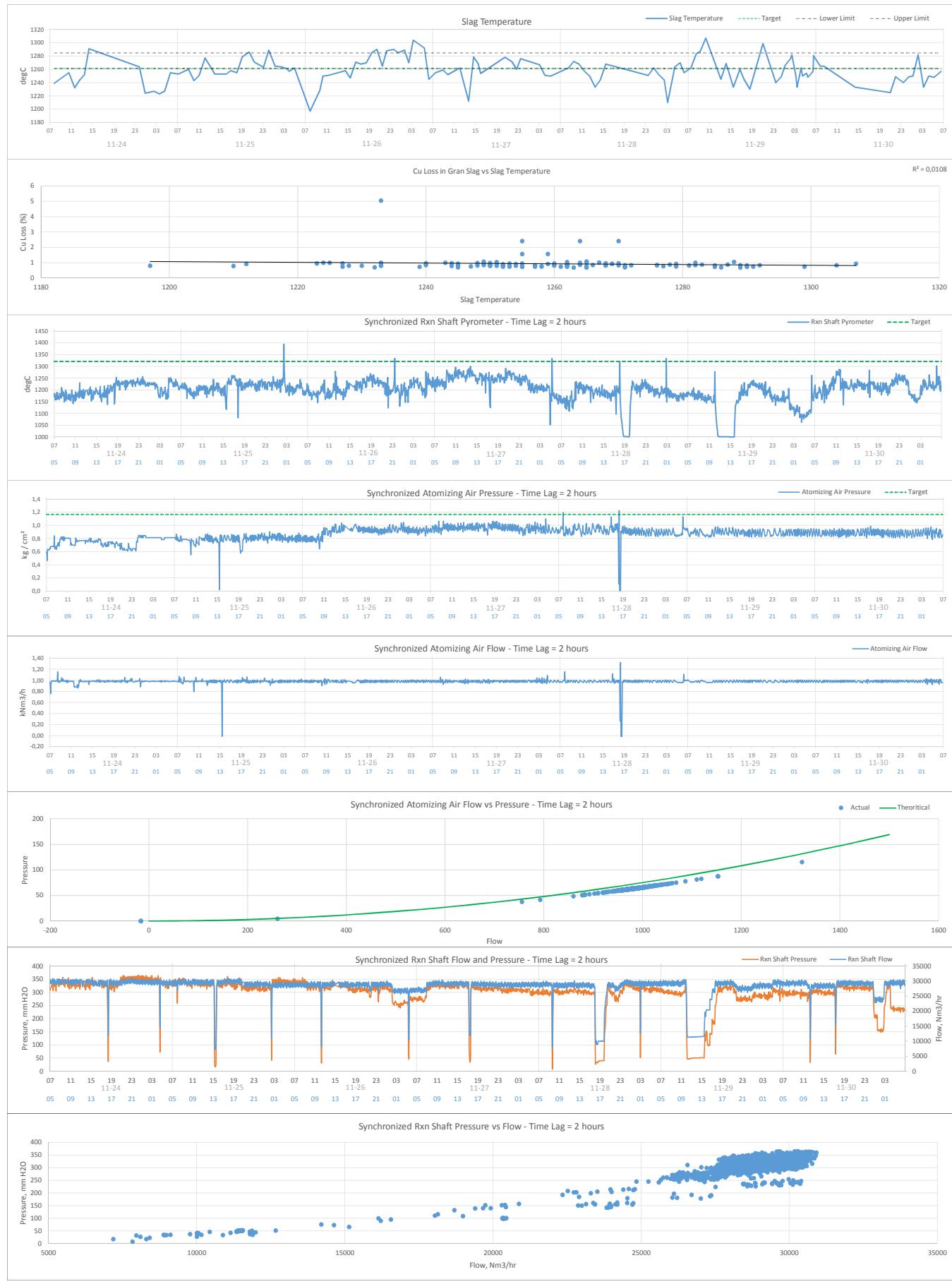
Time Legend

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TEMPERATURE



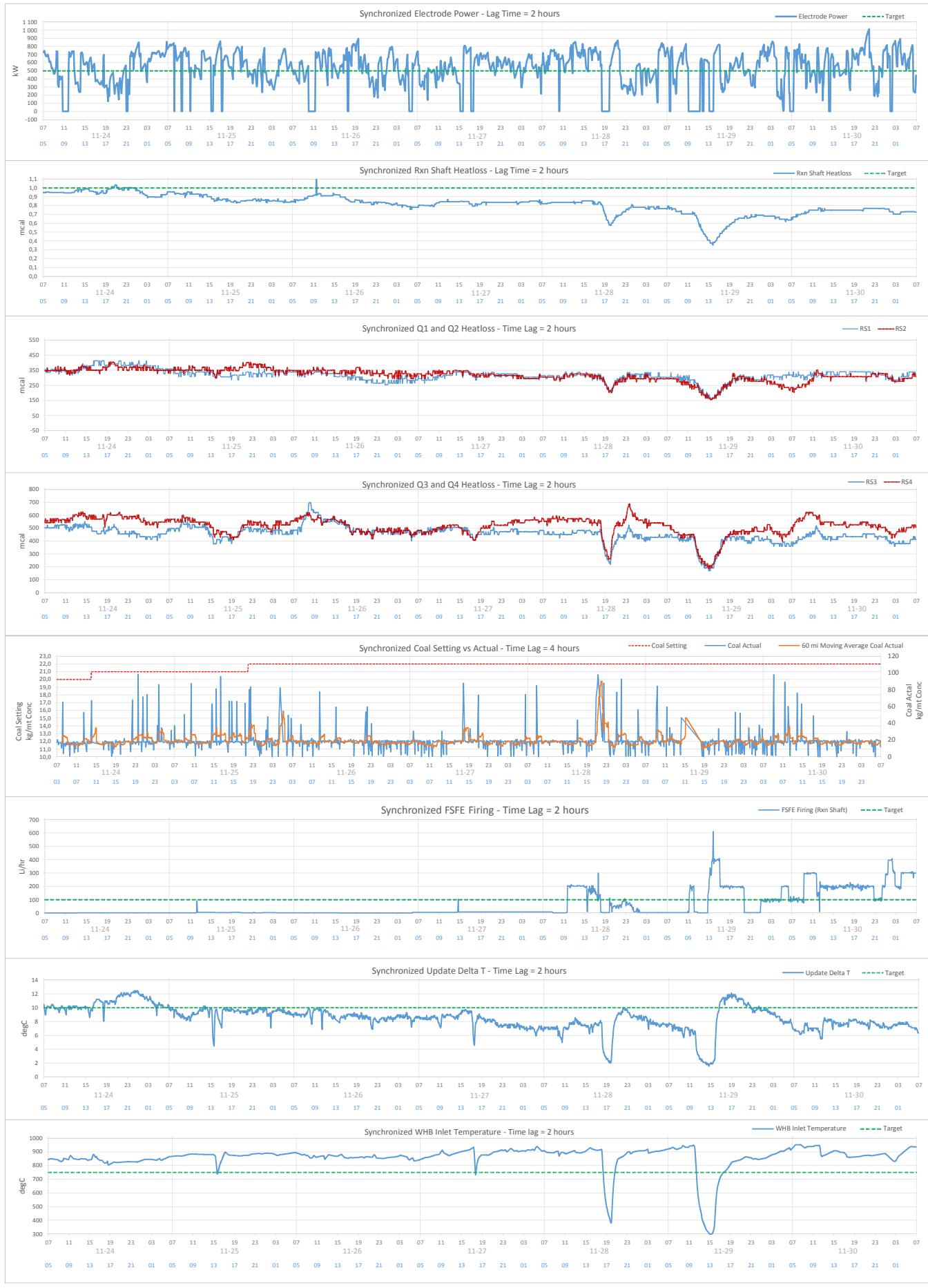
Time Legend

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TEMPERATURE



Time Legend

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Synchronized Realtime	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
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