ATTACHMENT 16

DATA MONITORING AND RECORDING SYSTEM

Attachment 16
Data Monitoring and Recording System

The following table lists the tag names for the parameters that will be monitored/calculated and recorded in the facility data archiving system. The parameters in the table must be monitored by the facility control system without interruption, with the value of each parameter evaluated at least once every 15 seconds and the average value of each parameter calculated and recorded at least every 60 seconds in accordance with 40 CFR§63.1209(b)(3).

Tag Name	Description	Units
AT2104	1st stage neut. feed pH (selected)	N/A
AT2104A	1st stage neut. feed pH A	N/A
AT2104B	1st stage neut. feed pH B	N/A
AT2104RL	1st stage neut. feed pH (HRA)	N/A
AT2129	2nd stage rundown pH (selected)	N/A
AT2129A	2nd stage rundown pH A	N/A
AT2129B	2nd stage rundown pH B	N/A
AT2129RL	2nd stage rundown pH (HRA)	N/A
AT2130	2nd stage neut. feed pH (selected)	N/A
AT2130A	2nd stage neut. feed pH A	N/A
AT2130B	2nd stage neut. feed pH B	N/A
AT2130RL	2nd stage neut. feed pH (HRA)	N/A
AT2199	stack CO (selected)	ppm
AT2199A	stack CO -- CEM A (low)	ppm
AT2199B	stack CO -- CEM A (high)	ppm
AT2199C	stack CO -- CEM B	ppm
AT2199CR	corrected stack CO	ppm
AT2207	stack THC (selected)	ppm
AT2207A	stack THC – CEM A	ppm
AT2207B	stack THC – CEM B	ppm
AT2207CR	corrected stack THC	ppm
AT2200	stack O2 (selected)	%
AT2200A	stack O2 -- CEM A	%
AT2200B	stack O2 -- CEM B	%
AT2199RL	CO rolling average	ppm
AT2207RL	THC rolling average	ppm
FT2201	CEM sample flow	l/hr
AT1010A	ABC O2 -- unit A	%
AT1010B	ABC O2 -- unit B	%
AT2020B	baghouse broken bag	%
AIT3044B	hydrocarbon vent O2	%

Tag Name	Description	Units
FT1121	A104 blend liquid flow	lb/min
FT1121RL	A104 blend liquid flow (HRA)	lb/hr
A104WL1	A104 blend liquid waste enabled	N/A
FT1131LB	A104 fuel oil flow	lb/min
FT1151	A102 aqueous liquid flow	lb/min
SV1150	A102 aqueous waste enabled	N/A
FT1151RL	A102 aqueous liquid flow (HRA)	lb/hr
FT1184	A106A blend liquid flow	lb/min
A106AWL1	A106A blend liquid waste enabled	N/A
FT1194LB	A106A fuel oil flow	lb/min
FT1221	A106B blend liquid flow	lb/min
A106BWL1	A106B blend liquid waste enabled	N/A
WT1102A	V1 station weigh scale A	lbs
WT1102B	V1 station weigh scale B	lbs
FT1102	V1 station feed rate	lb/min
FQT1102	V1 station hourly total	lbs
FT1102RL	V1 station feed fate (HRA)	lb/hr
SV1103	V1 station block valve	N/A
AT1122	V1 station LEL	%
FT1231LB	A106B fuel oil flow	lb/min
FT1253	A105A aqueous liquid flow	lb/min
SV1252	A105A aqueous waste enabled	N/A
FT1263	A105B aqueous liquid flow	lb/min
SV1262	A105B aqueous waste enabled	N/A
FT1270	ABC combined aqueous flow	lb/min
ABCAQTOT	ABC combined aqueous flow (HRA)	lb/hr
FT1290	ABC combined blend flow	lb/min
ABCBLDTO	ABC combined blend flow (HRA)	lb/hr
FT1171RL	A101 direct burn flow (HRA)	lb/hr
FT1171	A101 direct burn flow	lb/min

Tag Name	Description	Units
SV1170	A101 direct burn waste enabled	N/A
FT4042	A103 sludge flow	lb/min
SLGONWST	A103 sludge system enabled	N/A
FT4042RL	A103 sludge flow (HRA)	lb/hr
FT3018	A103 drum direct burn flow	lb/min
AT3013	drum direct burn glove box LEL	%
TT3201	drum direct burn feed line temp	ºF
FT3366	corrosive waste feed flow rate	lb/min
SV3364	corrosive waste feed enabled	N/A
TT3367	corrosive waste feed line temp	ºF
AA4012	repack room gas meter alarm	N/A
AA4013	decant room gas meter alarm	N/A
AA338X	corrosive waste gas meter alarm	N/A
WT1035RL	bulk solids feed rate (HRA)	lb/hr
WT1029RL	containers feed rate (HRA)	lb/hr
BLKCONRL	bulk solids and containers feed rate (HRA)	lb/hr
FIT1143	air to the kiln	acfm
FIT1192	air to the north ABC	acfm
FIT1247	air to the south ABC	acfm
FIT1015	secondary combustion air flow	acfm
FQT1250	total combustion air flow	acfm
FS4097	bulk solids vent flow switch	N/A
HY4018	atmospheric air damper	%
AT4089	RobbeRoller suction LEL	%
SV4086	RobbeRoller suction valve	N/A
HY4090	RobbeRoller dilution air valve	%
K407S	RobbeRoller dilution air fan	N/A
LSH4099	RobbeRoller liquid trap high	N/A
SV4083	carbon bed A inlet damper	N/A
SV4085	carbon bed B inlet damper	N/A
FT2081A	saturator brine flow A	gpm

Tag Name	Description	Units
FT2081B	saturator brine flow B	gpm
FT2081	saturator brine flow (selected)	gpm
FT2081RL	saturator brine flow (HRA)	gpm
FT2092A	1st stage scrubber brine flow A	gpm
FT2092B	1st stage scrubber brine flow B	gpm
FT2092	1st stage scrubber brine flow (selected)	gpm
FT2092RL	1st stage scrubber brine flow (HRA)	gpm
FT2095A	2nd stage scrubber brine flow A	gpm
FT2095B	2nd stage scrubber brine flow B	gpm
FT2095	2nd stage scrubber brine flow (selected)	gpm
FT2095RL	2nd stage scrubber brine flow (HRA)	gpm
FT2195	stack flow rate	acfm
FT2195RL	stack flow rate (HRA)	acfm
FT2195D	stack flow rate	dscfm
FT2066	Carbon Inj Air Flow	FPM
FT2066A	Carbon Inj Air Flow Train 1	FPM
FT2066B	Carbon Inj Air Flow Train 3	FPM
FT2066FZ	Carbon Inj Air Flow 1 min ave	FPM
FT2066RL	Carbon Inj Air Flow HRA	FPM
WT2037	Carbon Injection Feed Rate	lbs/hr
WT2037A	Carbon Injection Rate Train 1	lbs/hr
WT2037B	Carbon Injection Rate Train 3	lbs/hr
WT2037FZ	Carbon Injection 1 min ave	lbs/hr
WT2037RL	Carbon Injection Rate, HRA	lbs/hr
LT3108	tank T301 level	gals
LT3118	tank T302 level	gals
LT3128	tank T303 level	gals
LT3138	tank T304 level	gals
LT3148	tank T305 level	gals
LT3158	tank T306 level	gals
LT3168	tank T307 level	gals
LT3178	tank T308 level	gals

Tag Name	Description	Units
LT3188	tank T309 level	gals
LT3198	tank T310 level	gals
LT3208	tank T311 level	gals
LT3218	tank T312 level	gals
LT3278	tank T321 level	gals
LT3288	tank T322 level	gals
LT3258	tank T323 level	gals
LT3268	tank T324 level	gals
LT4023	tank T406 level	gals
LT4030	tank T401 level	gals
MI0006	north ABC waste feed cutoff	N/A
MI0007	south ABC waste feed cutoff	N/A
MI0009	solids and sludge waste feed cutoff	N/A
MI0010	total kiln waste feed cutoff	N/A
MI0015	total waste feed cutoff	N/A
MI0020	kiln blend waste feed cutoff	N/A
MI0021	north ABC blend waste feed cutoff	N/A
MI0022	south ABC blend waste feed cutoff	N/A
MI0023	direct burn waste feed cutoff	N/A
MI0024	north ABC aqueous waste feed cutoff	N/A
MI0025	south ABC aqueous waste feed cutoff	N/A
MI0026	barrel waste feed cutoff	N/A
MI0027	bulk solids waste feed cutoff	N/A
MI0028	sludge waste feed cutoff	N/A
MI0029	kiln aqueous waste feed cutoff	N/A
MI0030	V1 station AWFCO	N/A
ONWASTE	operating on waste	N/A
PIT1006A	ABC pressure A	" H_2O
PIT1006B	ABC pressure B	" H_2O
PIT1006C	ABC pressure C	" H_2O
PIT1006	ABC pressure	" H_2O

Tag Name	Description	Units
PIT2020A	baghouse inlet pressure	" H_2O
PIT2020B	baghouse outlet pressure	" H_2O
PDR2020	baghouse differential pressure	" H_2O
ZAL2021I	baghouse compartments on-line	N/A
PT2044	spray dryer top pressure	psi
PT2045	spray dryer mid pressure	psi
PD2093AR	1st stage differential pressure (HRA)	" H_2O
PD2093BR	2nd stage differential pressure (HRA)	" H_2O
PDSL1124	kiln blend atomizing air Δp	N/A
PDSL1187	north ABC blend atomizing air Δp	N/A
PDSL1224	south ABC blend atomizing air Δp	N/A
PSL1156	kiln aqueous atomizing air pressure	N/A
PSL1107	V1 station N_2 pressure switch	N/A
PSL1266	north ABC aqueous atomizing air pressure	N/A
PSL1256	south ABC aqueous atomizing air pressure	N/A
PSL1162	direct burn atomizing air pressure	N/A
PSL1153	sludge atomizing air pressure	N/A
PSL3382	corrosive waste feed atomizing air pressure	N/A
PSL1157	kiln aqueous pressure at block valve	N/A
PSL1165B	north ABC aqueous pressure at block valve	N/A
PSL1165C	south ABC aqueous pressure at block valve	N/A
PSL1119A	kiln blend pressure at block valve	N/A
PSL1119B	north ABC blend pressure at block valve	N/A
PSL1196	south ABC blend pressure at block valve	N/A
TT1005A	kiln outlet temp pyrometer A	ºF
TT1005B	kiln outlet temp pyrometer B	ºF
TT1005C	kiln outlet temp pyrometer C	ºF
TT1005S	kiln outlet temp	ºF
TT1005RL	kiln outlet temp (HRA)	ºF
TT1009A	ABC outlet temp A	ºF
TT1009B	ABC outlet temp B	ºF

Tag Name	Description	Units
TT1009C	ABC outlet temp C	ºF
TT1009S	ABC outlet temp	ºF
TT1009RL	ABC outlet temp (HRA)	ºF
TT2001A	spray dryer outlet temp A	ºF
TT2001B	spray dryer outlet temp B	ºF
TT2001C	spray dryer outlet temp C	ºF
TT2001S	spray dryer outlet temp	ºF
TT2001RL	spray dryer outlet temp (HRA)	ºF
TT2082A	saturator temp A	ºF
TT2082B	saturator temp B	ºF
TT2082C	saturator temp C	ºF
TT2082S	saturator temp	ºF
TT2194	stack temperature	ºF
SV3954	primary canister valve	N/A
SV3953	secondary canister valve	N/A
TMCARBA	carbon unit A timer	hours
TMCARBB	carbon unit B timer	hours
ST1003	kiln speed	rpm
PB0004	emergency stop button	N/A
PB0005	manual waste feed cutoff	N/A
ZSC1017	emergency hot vent	N/A
ZAL2021I	baghouse bypassed	N/A
UA0001	utility power failure alarm	N/A
WFTIMER	time on waste since WFCO test	hours
A104M	front wall BMS loss of flame	N/A
A106AM	north ABC BMS loss of flame	N/A
A106BM	south ABC BMS loss of flame	N/A
KIL-BTU	kiln Btu per pound	Btu/lb
ABN-BTU	north ABC blend Btu per pound	Btu/lb
ABS-BTU	south ABC blend Btu per pound	Btu/lb
AQU-BTU	aqueous Btu per pound	Btu/lb

Tag Name	Description	Units
DDB-BTU	drum direct burn Btu per pound	Btu/lb
DIR-BTU	direct burn Btu per pound	Btu/lb
KIL-VIS	kiln blend viscosity	cps
ABN-VIS	north ABC blend viscosity	cps
ABS-VIS	south ABC blend viscosity	cps
DIR-VIS	direct burn viscosity	cps
SLG-VIS	sludge viscosity	cps
DDB-VIS	drum direct burn viscosity	cps
KIL-SPGR	kiln blend specific gravity	N/A
ABN-SPGR	north ABC blend specific gravity	N/A
ABS-SPGR	south ABC blend specific gravity	N/A
CON-WGT	weight per container	lbs
TOTBTURL	system heat release (HRA)	MM Btu/hr
TOTCLRL	total chlorine feed (HRA)	lb/hr
CLRL12HR	total chlorine feed (12-hr RA)	lb/hr
AS7	total cumulative arsenic feed	lbs
BE7	total cumulative beryllium feed	lbs
CD7	total cumulative cadmium feed	lbs
CR7	total cumulative chromium feed	lbs
HG7	total cumulative mercury feed	lbs
PB7	total cumulative lead feed	lbs
SEMVOLRL	semi-volatile metals (HRA)	lb/hr
SEMVOL12	semi-volatile metals (12-hr RA)	lb/hr
LOWVOLRL	low volatile metals (HRA)	lb/hr
LOWVOL12	low volatile metals (12-hr RA)	lb/hr
TOTHGRL	mercury feed rate (HRA)	lb/hr
TOTHG12	mercury feed rate (12-hr RA)	lb/hr