

GC Glycol Co.,Ltd. (EA Plant)  
PROCESS  
FIELD OPERATOR LOG SHEET 1-6

Date 1 7 22

Ammonia storage vessel	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
P-2012A Pressure	PG-P2012A	Kg/cm <sup>2</sup> .g	20-29	-	-	-	-
Level seal pot	LG.	%	50-90	-	-	-	-
Pressure seal pot	PG	Kg/cm <sup>2</sup> .g	10-15	-	-	-	-
P-2012B Pressure	PG-P2012B	Kg/cm <sup>2</sup> .g	20-29	23	23	23	23
Level seal pot	LG.	%	50-90	80	80	80	80
Pressure seal pot	PG	Kg/cm <sup>2</sup> .g	10-15	13	13	13	13

High pressure ammonia absorber	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
P-2052A Pressure	PG-P2052A	Kg/cm <sup>2</sup> .g	15-28	-	-	-	-
Level seal pot	LG.	%	50-90	-	-	-	-
Pressure seal pot	PG	Kg/cm <sup>2</sup> .g	10-15	-	-	-	-
P-2052B Pressure	PG-P2052B	Kg/cm <sup>2</sup> .g	15-28	26	26	26	26
Level seal pot	LG.	%	50-90	80	80	80	80
Pressure seal pot	PG	Kg/cm <sup>2</sup> .g	10-15	13	13	13	13

Reactor charge pump	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
P-2051A Pressure	PG-P2051A	Kg/cm <sup>2</sup> .g	75-85	80	80	80	80
Pressure seal pot	PG	Kg/cm <sup>2</sup> .g	26-33	30.3	30.0	29.4	29.5
Temp seal pot	TG	C	32-50	40	40	40	40
Pressure oil pump	PG	Kg/cm2.g	1.4-5	2.8	2.8	2.8	2.8
Oil temp inlet (Cooler)	TG	C	<80	65	65	65	65
Oil temp outlet (Cooler)	TG	C	<60	55	55	55	55
NH3 port	PPM	PPM	<0	0	0	0	0
Leak rate		m	<0.1	0.1/0.1/0.1	0.1/0.1/0.1	0.1/0.1/0.1	0.1/0.1/0.1
P-2051B Pressure	PG-P2051B	Kg/cm <sup>2</sup> .g	75-85	-	-	-	-
Pressure seal pot	PG	Kg/cm <sup>2</sup> .g	29-33	-	-	-	-
Temp seal pot	TG	C	32-50	-	-	-	-
Pressure oil pump	PG	Kg/cm2.g	1.4-5	-	-	-	-
Oil temp inlet (Cooler)	TG	C	<80	-	-	-	-
Oil temp outlet (Cooler)	TG	C	<60	-	-	-	-
NH3 port	PPM	PPM	<0	-	-	-	-
Leak rate		m	<0.1	0.1/0.1/0.1	0.1/0.1/0.1	0.1/0.1/0.1	0.1/0.1/0.1

Ammonia vent scrubber (A-2014)	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
Level A-2014	LG-A2014	%	0-90	80	80	80	80
P-2061 Pressure	PG-P2061	Kg/cm <sup>2</sup> .g	-	2.9	2.9	2.9	2.9
Condensate circulation to A2014	FG-A2023	m3/hr	0.1-0.6	0.2	0.2	0.2	0.2
Flow A2014 re-circulation	FG-A2014	m3/hr	1.5-4	3	3	3	3

GC Glycol Co.,Ltd. (EA Plant)  
UTILITY & WASTE WATER & TANK & PROCESS  
BOARD OPERATOR LOG SHEET 3-4

DATE: 1 7 22

Flash Drum M-2052	Tag no.	Unit	Range	10:00	17:00	22:00	5:00
Reactor pressure control	PC-T-2018-1	kg/cm <sup>2</sup> .g	60-67	65.9	65	65	64.92
M-2052 temp control (KEEP)	TC-T2018-1	°C	137.2-170	161	161	161.5	161.5
ATM Dewatering to T-2046	FC-M2017-3	kg/hr	300-1200	499	499	499	499.5
Off spec rerun	FC-T2019-1	kg/hr	0-4000	-	-	-	-
	FC-T2019-3	kg/hr	0-1500	-	-	-	-

A-2013 Atmospheric Dewatering	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
Steam to T-2020	FC-T2020-1	kg/hr	1000-3500	1472	1470	1497	1516
A-2013 Cut temp	TC-A2013-7	°C	125-145	138	137	137.5	138.5
A-2013 over head temp	TI-A2013-1	°C	70-115	109	103.9	105.	105.3
A-2013 Tower pressure	PC-A2013-1	kg/cm <sup>2</sup> .g	0-1.0	0.45	0.44	0.488	0.498
Inlet temp to Reboiler (KEEP)	TI-T2020-5	°C	152.5-171	158	157	156	156.4
Reflux to A-2013 (KEEP)	FC-A2013	kg/hr	230.9-500	250	250	250.2	249
Aqueous NH3 Concentrate (KEEP)	AY1-M2017	%	8.4-24.3	17.5	17.7	17.6	17.5

Vacuum Dewatering A-2018	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
A-2018 feed temp	TI-A2018-2	°C	100-160	95.4	97.2	104.5	111.8
A-2018 over head temp*	TC-A2018-1	°C	55-65	55.2	56.7	57.04	55.71
A-2018 temp	TC-A2018-3	°C	100-135	117	119.8	120.94	117.05
Steam to T-2022	FC-T2022	kg/hr	500-2000	713	748	952.4	690
A-2018 Tower pressure	PC-A2018-1	mmHg	(-560)-(-750)	-584	-578	-590	-550
Reflux to A-2018 (KEEP)	FC-A2018	kg/hr	373.73-1610	766	799	773	765

Ammonia/Amine/Scrubber	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
Gas alarm	A17	ppm	0-20	0	0	0	0
Level Bottom control A-2014	LC-A2014	%	30-90	80	80	80	80

A-2020 MEA Fractionation	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
A-2020 over head temp	TI-A2020-1	°C	80-90	82.7	82.9	82.27	82.47
A-2020 temp	TC-A2020-5	°C	80-130	99.4	99.2	99.3	99.4
A-2020 Tower bottom temp (KEEP)	TI-A2020-9	°C	159-183	173	188	177.9	172
Steam to T-2025	FC-T2025	kg/hr	1000-2600	1171	1101	1153	1151.9
Reflux to A-2020 (KEEP)	FC-P2019	kg/hr	40-300	179	179	180.9	180.5
A-2020 tower pressure	PC-A2020-4	mmHg	(-650)-(-760)	-732	-731	-732	-732

Recycle feed P-2018	Tag. No.	Unit	Range	10:00	17:00	22:00	5:00
DEA Recycle	FC-P2018-1	kg/hr	3500-5500	5500	5500	5500	5500
Min flow of P-2018	FC-P2018-4	kg/hr	2000-5500	3963	3966	3954	3956
Pressure control	PI-P2018-2	kg/cm <sup>2</sup> .g	67-80	71.9	71.9	71.8	71.8
Flow recycle to Reactor	FI-P2018-31	kg/hr	250-2000	500	500	500	500