Instruments List

By:	M.van Heun				xmtr =	transmitter					RIO-Reg = remote I/O reg. room	
Client:	**XXXXXX**				SW =	software					RIO-Util = remote I/O utilities room	
Project:	Styrene Filter				AI/AO =	4-20mA -2wire					RIO-filter = remote I/O XXXXXX filter	
Date:	10-11-2008				L=	Local					RIO-MCC = remote I/O MCC	
Rev. Stat.	8 ; For constrct.	(updated to PID_XXXXXX2_0014)			MCC=	Motor Control Centre						
Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
EM001-1	Motor (control)	On pump P001	L/MCC				Safe	RIO-MCC	DO			
EM001-1	Motor (feedback)	On pump P001	L/MCC				Safe	RIO-MCC	DI			
HC001-1	Man. Controller	SW function	PLC									
EM001-2	Motor (control)	On fan FD001-2	L/MCC				Safe	RIO-MCC	DO			
EM001-2	Motor (feedback)	On fan FD001-2	L/MCC				Safe	RIO-MCC	DI			
HC001-2	Man. Controller	SW function	PLC									
EM001-3	Motor (control)	On fan FD001-3	L/MCC				Safe	RIO-MCC	DO			
EM001-3	Motor (feedback)	On fan FD001-3	L/MCC				Safe	RIO-MCC	DI			
HC001-3	Man. Controller	SW function	PLC									
												8
												8
												8
EM027	Motor (control)	On fan FD027	L/MCC				Safe	RIO-MCC	DO			
EM027	Motor (feedback)	On fan FD027	L/MCC				Safe	RIO-MCC	DI			
HC027	Man. Controller	SW function	PLC									
EM030	Motor (control)	On fan FD030	L/MCC				Safe	RIO-MCC	DO			
EM030	Motor (feedback)	On fan FD030	L/MCC				Safe	RIO-MCC	DI			
HC030	Man. Controller	SW function	PLC									
FS001	switch	Duct container room out	L	Air			Safe	RIO-Reg	DI			
FA001	Ind./alarm	SW function	PLC									
FS002	switch	Clean gas duct	L	Air			Safe	RIO-filter	DI			8
FA002	Ind./alarm	SW function	PLC									8
FS003	switch	Aeration duct.	L	Air			Safe	RIO-filter	DI			8
FA003	Ind./alarm	SW function	PLC									8
FE025	Pitot tube	Client stack	L	Flue gas								
FT025	P/I conv/xmtr	Client stack	L	Flue gas			Safe	RIO-filter	AI			
FC025	Controller	SW function	PLC									
SC025	Speed converter		MCC				Safe	RIO-MCC	AO			
EM025	Motor (control)	On fan FD025	L/MCC				Safe	RIO-MCC	DO			
EM025	Motor (feedback)	On fan FD025	L/MCC				Safe	RIO-MCC	DI			
LG001	Gauge	On Tank T001	L	water								
LT002	xmtr	On boiler	L	water			Safe			In boiler	control system	

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
LIC002	Controller	SW function	PLC							In boiler	control system	
EM002	Motor (control)	On pump P002	L/MCC				Safe			In boiler	control system	
EM002	Motor (feedback)	On pump P002	L/MCC				Safe			In boiler	control system	
LT003	xmtr	On Tank T001	L	water			Safe	RIO-Reg	AI			
LICZA003	Contr/trip/alarm	SW function	PLC									
SC003	Speed converter		MCC				Safe	RIO-MCC	AO			
EM003	Motor (control)	On pump P003A	L/MCC				Safe	RIO-MCC	DO			
EM003	Motor (feedback)	On pump P003A	L/MCC				Safe	RIO-MCC	DI			
LG020	Gauge	On Tank T020	L									
LT021	xmtr	On Tank T020	L	water			Safe	RIO-Reg	AI			
LICZA021	Contr/trip/alarm	SW function	PLC									
XV011-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV011-1	On/off valve	Line water in	L									
PT001	Transmitter	XXXXXX filter	L	Gas			Safe	RIO-filter	AI			
PIZA001	Ind/trip/alarm	SW function	PLC									
PI002	Gauge	XXXXXX filter	L	Gas								
												8

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
												8
												8
												8
PT010	Transmitter	On T001	L	Air			Safe	RIO-Reg	AI			
PI022	Gauge	Pump P002 in	L	Water								
PI023	Gauge	Pump P002 out	L	Water								
PI050	Gauge	Instrument air out	L	Air								
PT051	Transmitter	Instrument air out	L	Air			Safe	RIO-Util	AI			
PZA051	Trip / alarm	SW function	PLC									
PI060	Gauge	Cooling water out	L	Water								
PT061	Transmitter	Cooling water out	L	Water			Safe	RIO-Util	AI			
PIA061	Indicator / alarm	SW function	PLC									
PI071	Gauge	Cooling water out	L	Water								
PT070	Transmitter	Cooling water out	L	Water			Safe	RIO-Reg	AI			
PIZA070	Ind/trip/alarm	SW function	PLC									
PI082	Gauge	Pump P003A out	L	Water								
PT083	Transmitter	Pump P021 out	L	Water			Safe	RIO-Reg	AI			
PZA083	Trip/alarm	SW function	PLC									
PT084	Transmitter	Tank T020	L	Air			Safe	RIO-Reg	AI			
SG001	Sight glass	Styrene line to drum	L	Styrene								

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type
TE001	PT100	XXXXXX filter	In TW								
TT001	xmtr	XXXXXX filter	L				Safe	RIO-filter	AI		
TW001	Well		L	Gas							
TI001	Indicator	SW function	PLC								
TE003	PT100	XXXXXX filter	In TW								
TT003	xmtr	XXXXXX filter	L				Safe	RIO-filter	AI		
TW003	Well		L	Gas							
TI003	Indicator	SW function	PLC								

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
TW004	Well	On steam line	L	Steam								
TI004	Gauge	On steam line	L									
TE005	PT100	Condensate to EX001	In TW									
TT005	xmtr	Condensate to EX001	L				Safe	RIO-Reg	AI			
TW005	Well	Condensate to EX001	L	Cond.								
TI005	Indicator	SW function	PLC									
TE010	PT100	Water T001	In TW									
TW010	Well	Water T001	L	Water								
TT010	xmtr	Water T001	L				Safe	RIO-Reg	AI			
TI010	Indicator	SW function	PLC									
TE011	PT100	Cooling water EX001	In TW									
TW011	Well	Cooling water EX001	L	Water								
TT011	xmtr	Cooling water EX001	L				Safe	RIO-Reg	AI			
TI011	Indicator	SW function	PLC									
TE012	PT100	Cooling water EX001	In TW									
TW012	Well	Cooling water EX001	L	Water								
TT012	xmtr	Cooling water EX001	L				Safe	RIO-Reg	AI			
TI012	Indicator	SW function	PLC									
TIA012	Indicator/alarm	SW function	PLC									
TE013	PT100	Condensate in EX003	In TW									
TW013	Well	Condensate in EX003	L	Cond.								
TT013	xmtr	Condensate in EX003	L				Safe	RIO-Reg	AI			
TI013	Indicator	SW function	PLC									
TE014	PT100	Condensate out EX003	In TW									
TW014	Well	Condensate out EX003	L	Cond.								
TT014	xmtr	Condensate out EX003	L				Safe	RIO-Reg	AI			
TI014	Indicator	SW function	PLC									
TE015	PT100	Water to T001	In TW									
TW015	Well	Water to T001	L	Water								
TT015	xmtr	Water to T001	L				Safe	RIO-Reg	AI			
TI015	Indicator	SW function	PLC									

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
TE016	PT100	Condensate in EX003	In TW									
TW016	Well	Condensate in EX003	L	Cond.								
TT016	xmtr	Condensate in EX003	L				Safe	RIO-Reg	AI			
TI016	Indicator	SW function	PLC									
TE017	PT100	Condensate out EX003	In TW									
TW017	Well	Condensate out EX003	L	Cond.								
TT017	xmtr	Condensate out EX003	L				Safe	RIO-Reg	AI			
TICZA017	Contr/trip/alarm	SW function	PLC									
XV017-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV017-1	On/off valve	Cooling water line	L	Water								
TE018	PT100	S001 air out	In TW									
TW018	Well	S001 air out	L	Cond.								
TT018	xmtr	S001 air out	L				Safe	RIO-Reg	AI			
TI018	Indicator	SW function	PLC									
TE020	PT100	Tank T020	In TW									
TW020	Well	Tank T020	L	Water								
TT020	xmtr	Tank T020	L				Safe	RIO-Reg	AI			
TICZA020	Contr/trip/alarm	SW function	PLC									
XV020-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV020-1	On/off valve	Cooling water line	L	Water								
HC002	Man. Controller	SW function	PLC									
XV002-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV002-1	On/off valve	Line steam in	L	Steam								
ZS002 O	Prox. switch	On valve XV002	L				Safe	RIO-Reg	DI			
ZS002 C	Prox. switch	On valve XV002	L				Safe	RIO-Reg	DI			
HC021	Man. Controller	SW function	PLC									
XV021-2	Solenoid	Instrument air	L				Safe	RIO-filter	DO			
XV021-1	On/off valve	Clean gas	L	Gas								
ZS021 O	Prox. switch	On valve XV021	L				Safe	RIO-filter	DI			
ZS021 C	Prox. switch	On valve XV021	L				Safe	RIO-filter	DI			
HC022	Man. Controller	SW function	PLC									
XV022-2	Solenoid	Instrument air	L				Safe	RIO-filter	DO			
XV022-1	On/off valve	Waste gas	L	Gas								
ZS022 O	Prox. switch	On valve XV022	L				Safe	RIO-filter	DI			
ZS022 C	Prox. switch	On valve XV022	L				Safe	RIO-filter	DI			

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
HC023	Man. Controller	SW function	PLC									
XV023-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV023-1	On/off valve	Steam line filter in	L	Steam								
ZS023 O	Prox. switch	On valve XV020	L				Safe	RIO-Reg	DI			
ZS023 C	Prox. switch	On valve XV020	L				Safe	RIO-Reg	DI			
HC024	Man. Controller	SW function	PLC									
XV024-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV024-1	On/off valve	Cond. line filter out	L	Cond.								
ZS024 O	Prox. switch	On valve XV020	L				Safe	RIO-Reg	DI			
ZS024 C	Prox. switch	On valve XV020	L				Safe	RIO-Reg	DI			
HC025	Man. Controller	SW function	PLC									
XV025-2	Solenoid	Instrument air	L				Safe	RIO-filter	DO			
XV025-1	On/off valve	Aeration line to filter	L	Air								
ZS025 O	Prox. switch	On valve XV025	L				Safe	RIO-filter	DI			
ZS025 C	Prox. switch	On valve XV025	L				Safe	RIO-filter	DI			
HC026	Man. Controller	SW function	PLC									
XV026-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			
XV026-1	On/off valve	Steamline filter in	L	Steam								
ZS026 O	Prox. switch	On valve XV026	L				Safe	RIO-Reg	DI			
ZS026 C	Prox. switch	On valve XV026	L				Safe	RIO-Reg	DI			
												8
												8
												8
WT001	Weighing scale	Drum room	L	Air				RIO-Reg	AI			
WICA001	Ind/contr/alarm	SW function	PLC									8
XV001-2	Solenoid	Instrument air	L				Safe	RIO-Reg	DO			8
XV001-1	On/off valve	Styrene line to drum	L	Air								8
ZS001 O	Prox. switch	On valve XV001	L				Safe	RIO-Reg	DI			8
QT001	PID analyzer	In control room	L	Flue gas				RIO-MCC	AI			
QIR001	Indicator/recorder	SW function	PLC									
QT002	PID analyzer	In control room	L	Flue gas				RIO-MCC	AI			8
QIR002	Indicator/recorder	SW function	PLC									8

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Tag no.	Description	Service	Loc.	Medium	Range	Size	Class.	System	I/O	Make	Type	
QSA002	Smoke detector	In regen. room	L				Safe	RIO-Reg	DI			
QSA003	Smoke detector	In util room	L				Safe	RIO-Util	DI			
QSA004	Smoke detector	In control room	L				Safe	RIO-MCC	DI			
Boiler	Ready	Util. Room	L				Safe	RIO-Util	DI			
	Alarm	Util. Room	L				Safe	RIO-Util	DI			
	Start	Util. Room	L				Safe	RIO-Util	DO			
IA unit	Ready	Util. Room	L				Safe	RIO-Util	DI			
	Alarm	Util. Room	L				Safe	RIO-Util	DI			
	Start	Util. Room	L				Safe	RIO-Util	DO			