



Vendor: NEWJCM Job No. 5658	EPC Contractor :  Project No. : 1208	HENGAM FERTILIZER PROJECT AIR Compressor I/O List with Set Point Doc. No.: VD-1208-301A-LST-151	Owner:  Project No. :
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VENDOR : **Jinzhou NEWJCM Machinery Manufacturer Co. Ltd.**

REQ. NO. : **1208-00-RE-REQ-301A**

ITEM NO. : **40-C-421**

ITEM DESCRIPTION : **AIR Compressor**

PURCHASER DOC. NO. : **-**

VENDOR DOC. NO. : **VD-1208-301A-LST-151**



TOTAL PAGES : **26 (Excluding Attachments)**

- No Comment To Vendor**
- Comment as marked** manufacturing may proceed To Vendor
- Major Comment as marked** manufacturing is on hold for the next rev To Vendor
- Rejected**, new document with the same rev. no. To Vendor
- Used as for information To Vendor**

Name :	Req. No.:	Seq. No.:
Signature :		
Date:		

PIDEC review & comments does not absolve the vendor of the responsibility for the correct design, manufacturing and operation of the equipment

DE		EXT	A			
Eng. Phase		Purpose of Distribution (POD)	Purpose of Issue (POI)		Purchaser's Action	
6	2022.1.5	Issued for Approval	He Yingche	Wu Qing	Wang Zhijun	
5	2020.3.15	Issued for Approval	He Yingche	Wu Qing	Wang Zhijun	
4	2018.1.25	Issued for Approval	He Yingche	Wu Qing	Wang Zhijun	
3	2015.12.20	Issued for Approval	He Yingche	Wu Qing	Wang Zhijun	
1	2015.5.4	Issued for Approval	He Yingche	Wu Qing	Wang Zhijun	
0	2015.1.12	Issued for Approval	He Yingche	Wu Qing	Wang Zhijun	
Rev.	Date	Description	Prepared by	Checked by	Approved by	Authorized by

Vendor: NEWJCM Job No. 5658	EPC Contractor :  Project No. : 1208	HENGAM FERTILIZER PROJECT AIR Compressor I/O List with Set Point Doc. No.: VD-1208-301A-LST-151	Owner:  Project No. :
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Abbreviation

L : Local	LCR:Local Control Room
LCS : Local Control Station	SW : Switch
LGB : Local Gauge Board	PB : Push Button switch
MCC : Motor Control Center	COS : Change-Over Switch
DGS : Dry Gas Seal	SOV : Solenoid Valve
GSM : Gas Seal Module	CV : Control Valve
CCR : Center Control Room	TRANS : Transmitter
BN : Bently Nevada monitor	PROX : Proximitior
MOP : Main Oil Pump	INST : Instrument
AOP : Auxiliary Oil Pump	RTD : Resistance Temperature Detector
EOP : Emergency Oil Pump	EOH : Electric Oil Heater
PLC : Program Logic Control System	OSTM: Overspeed Trip Module
TC :Thermocouple	AOC :Auxiliary Operating Console
EOST : OverSpeed Trip Test Enable	MIST :Oil Mist Fan Electric
MPU :Impulse	PI :Pulse Input
505 :Electronic Governor	IS :Intrinsically Safe
NIS :No-Intrinsically Safe	DE:DRIVE END
NDE:NON-DRIVE END	AMM-MCC: Ammonia MCC
DCCP:Door of Comp.Control Panel	U-MCC:UREA MCC
UCP-421:Air Compresspr Unit Control Panel	

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		Rev. : 06	

VC: Voltage Converter 110VAC to 24VDC

GOV.SIDE:Governor Side

EXH.SIDE: Exhaust Side

INT.: Interlock

NOTE1: All instruments have prefix No.40 for example 40-HS-42101.

NOTE2: All transmitters will be HART Protocol & Integrated display type.

NOTE3: All Valve proximity switches shall be "NAMUR" type.

IN ATTACHMENT NO. 1

Signal type	Signal source	Signal destination	Power by PLC (yes or no)		Redundant (yes or no)	IS/NIS	Subtotal	Spare	Total	Remark																																																																																																																																																																																																									
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IN ATTACHMENT NO. 2

Signal type	Signal source	Signal destination	Power by PLC (yes or no)		Redundant (yes or no)	IS/NIS	Subtotal	Spare	Total	Remark																																																																																																																																																																																																																		
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IN ATTACHMENT NO. 3

Signal type	Signal source	Signal destination	Power by PLC (yes or no)		Redundant (yes or no)	IS/NIS	Subtotal	Spare	Total	Remark
D0	PLC	LCS	6	yes	no	NIS(Exd)	13	3	53	
				no						
D0	PLC	LGB	5	yes	no	NIS(Exd)				
				no						
D0	PLC	L	2	yes	yes	NIS(Exd)				
				no						
D0	PLC	L	5	yes	yes	IS	5	1		
				no						
D0	PLC	OSTM		yes	no	NIS	26	5		
			1	no						
D0	PLC	BN		yes	no	NIS				
			1	no						
D0	PLC	505		yes	no	NIS				
			8	no						
D0	PLC	505		yes	yes	NIS				
			1	no						
D0	PLC	MCC	14	yes	no	NIS				
				no						
D0	PLC	ESD		yes	yes	NIS				
			1	no						

1-1. Digital Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION (SETPOINT)		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-101 AIR COMPRESSOR PID																		
1	HZSH-42161	LP COMP. DISCHARGE VENT VALVE OPEN	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	*	1 @ START PERMISSIVE
2	HZSL-42161	LP COMP. DISCHARGE VENT VALVE CLOSE	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	-	
3	FZSH-42162	HP COMP. DISCHARGE VENT VALVE OPEN	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	*	1 @ START PERMISSIVE
4	FZSL-42162	HP COMP. DISCHARGE VENT VALVE CLOSE	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	-	
5	XZSH-42163	HP COMP. SECTION-4 DISCHARGE BALL VALVE OPEN	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	-	
6	XZSL-42163	HP COMP. SECTION-4 DISCHARGE BALL VALVE CLOSE	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	*	1 @ START PERMISSIVE
7	XZSH-42164	HP COMP. AIR FOR INSTRUMENT AIR DISCHARGE BALL VALVE OPEN	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	-	
8	XZSL-42164	HP COMP. AIR FOR INSTRUMENT AIR DISCHARGE BALL VALVE CLOSE	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	*	1 @ START PERMISSIVE
9	LSHH-42166A	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR LP COMP. SECTION-2	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	HH @2003
10	LSHH-42166B	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR LP COMP. SECTION-2	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	
11	LSHH-42166C	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR LP COMP. SECTION-2	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	
12	LSHH-42167A	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR HP COMP. SECTION-3	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	HH @2003
13	LSHH-42167B	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR HP COMP. SECTION-3	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	
14	LSHH-42167C	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR HP COMP. SECTION-3	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	
15	LSHH-42168A	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR HP COMP. SECTION-4	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	HH @2003
16	LSHH-42168B	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR HP COMP. SECTION-4	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	
17	LSHH-42168C	DRAIN SEPARATOR LIQUID LEVEL SWITCH FOR HP COMP. SECTION-4	SW	L	-	-	TRIP	-	DRY	-	PLC	UCP-421	*	-	-	*	-	

1-1. Digital Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION (SETPOINT)		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-102 STEAM TURBINE PID																		
18	XZSH-42111	TURBINE INDUCTION STEAM CUT-OFF VALVE OPEN	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	-	
19	XZSL-42111	TURBINE INDUCTION STEAM CUT-OFF VALVE CLOSE	SW	L	-	-		1	PRO(N AMUR)	-	PLC	UCP-421	*	-	-	-	*	1 @ START PERMISSIVE
VD-1208-301A-PID-103 LUBE OIL SYSTEM (TANK) PID																		
20																		Delete
21	HS-42101	STANDBY OIL PUMP MOTOR 40-PM-450B START PB	PB	LCS	-	-	-	START	DRY	-	PLC	UCP-421	*	-	-	-	-	Exd
22	HS-42102	STANDBY OIL PUMP MOTOR 40-PM-450B STOP PB	PB	LCS	-	-	STOP	-	DRY	-	PLC	UCP-421	*	-	-	-	-	
23	HS-42103	STANDBY OIL PUMP MOTOR 40-PM-450B REMOTE/MANUAL SELECTOR	COS	LCS	-	-	MANUAL	REMOTE	DRY	-	PLC	UCP-421	*	-	-	-	-	
24	HS-42104	EMERGENCY OIL PUMP MOTOR 40-PM-450C START PB	PB	LCS	-	-	-	START	DRY	-	PLC	UCP-421	*	-	-	-	-	
25	HS-42105	EMERGENCY OIL PUMP MOTOR 40-PM-450C STOP PB	PB	LCS	-	-	STOP	-	DRY	-	PLC	UCP-421	*	-	-	-	-	
26	HS-42106	EMERGENCY OIL PUMP MOTOR 40-PM-450C REMOTE/MANUAL SELECTOR	COS	LCS	-	-	MANUAL	REMOTE	DRY	-	PLC	UCP-421	*	-	-	-	-	
27	HS-42107	ELECTRIC OIL HEATER 40-H-421 ON PB	PB	LCS	-	-	-	ON	DRY	-	PLC	UCP-421	*	-	-	-	-	
28	HS-42108	ELECTRIC OIL HEATER 40-H-421 OFF PB	PB	LCS	-	-	OFF	-	DRY	-	PLC	UCP-421	*	-	-	-	-	
29	HS-42109	ELECTRIC OIL HEATER 40-H-421 REMOTE/MANUAL SELECTOR	COS	LCS	-	-	MANUAL	REMOTE	DRY	-	PLC	UCP-421	*	-	-	-	-	
30	HS-42110	OIL MIST FAN 40-X-421-FM START PB	PB	LCS	-	-	-	START	DRY	-	PLC	UCP-421	*	-	-	-	-	
31	HS-42111	OIL MIST FAN 40-X-421-FM STOP PB	PB	LCS	-	-	STOP	-	DRY	-	PLC	UCP-421	*	-	-	-	-	
32	XP-450B-M-R	STANDBY OIL PUMP MOTOR 40-PM-450B RUNNING	CUST MCC	AMM MCC	-	-	-	RUNNING	DRY	-	PLC	UCP-421	*	-	-	-	-	

1-1. Digital Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION (SETPOINT)		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
33	XP-450C-M-R	EMERGENCY OIL PUMP MOTOR 40-PM-450C RUNNING	CUST MCC	AMM MCC	-	-	-	RUNNING	DRY	-	PLC	UCP-421	*	-	-	-	-	
34	XH-421-R	ELECTRIC OIL HEATER 40-H-421 ON STATUS	CUST MCC	AMM MCC	-	-	-	ON	DRY	-	PLC	UCP-421	*	-	-	-	-	
35	XP-421-FM-R	OIL MIST FAN 40-X-421-FM RUNNING	CUST MCC	AMM MCC	-	-	-	RUNNING	DRY	-	PLC	UCP-421	*	-	-	-	-	
36	XP-450B-M-T	STANDBY OIL PUMP MOTOR 40-PM-450B ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
37	XP-450C-M-T	EMERGENCY OIL PUMP MOTOR 40-PM-450C ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
38	XH-421-T	ELECTRIC OIL HEATER 40-H-421 ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
39	XP-421-FM-T	OIL MIST FAN 40-X-421-FM ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
VD-1208-301A-PID-105 MACHINE MONITORING DIAGRAM																		
40	XA-42150	BENTLY MONITOR COMMON ALARM	BN	UCP-421	-	-	ALARM	-	DRY	-	PLC	UCP-421	-	-	*	-	-	
41	VSHH-42151	TURBINE RADIAL VIBRATION COMMON HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
42	VSHH-42152	LP COMP. RADIAL VIBRATION COMMON HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
43	VSHH-42153	HP COMP. RADIAL VIBRATION COMMON HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
44	ZSHH-42151	TURBINE AXIAL POSITION COMMON HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
45	ZSHH-42152	LP COMP. AXIAL POSITION COMMON HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
46	ZSHH-42153	HP COMP. AXIAL POSITION COMMON HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
47	TSHH-42151	TURBINE BEARING TEMPRETURE HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
48	TSHH-42152	LP COMP. BEARING TEMPRETURE HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant

1-1. Digital Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION (SETPOINT)		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
49	TSHH-42153	HP COMP. BEARING TEMPRETURE HIGH HIGH	BN	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
VD-1208-301A-PID-107 TURBINE STEAM CONDENSER PID																		
50	HS-42134	CONDENSATE PUMP-A 40-P-402A MOTOR START PB	PB	LCS	-	-	-	START	DRY	-	PLC	UCP-421	*	-	-	-	-	Exd
51	HS-42135	CONDENSATE PUMP-A 40-P-402A MOTOR STOP PB	PB	LCS	-	-	STOP	-	DRY	-	PLC	UCP-421	*	-	-	-	-	
52	HS-42136	CONDENSATE PUMP-A 40-P-402A REMOTE/MANUAL SELECTOR	COS	LCS	-	-	MANUAL	REMOTE	DRY	-	PLC	UCP-421	*	-	-	-	-	
53	HS-42137	CONDENSATE PUMP-B 40-P-402B MOTOR START PB	PB	LCS	-	-	-	START	DRY	-	PLC	UCP-421	*	-	-	-	-	
54	HS-42138	CONDENSATE PUMP-B 40-P-402B MOTOR STOP PB	PB	LCS	-	-	STOP	-	DRY	-	PLC	UCP-421	*	-	-	-	-	
55	HS-42139	CONDENSATE PUMP-B 40-P-402B REMOTE/MANUAL SELECTOR	COS	LCS	-	-	MANUAL	REMOTE	DRY	-	PLC	UCP-421	*	-	-	-	-	
56	XP-402A-M-R	CONDENSATE PUMP-A MOTOR 40-P-402A RUNNING	CUST MCC	AMM MCC	-	-	-	RUNNING	DRY	-	PLC	UCP-421	*	-	-	-	-	
57	XP-402B-M-R	CONDENSATE PUMP-B MOTOR 40-P-402B RUNNING	CUST MCC	AMM MCC	-	-	-	RUNNING	DRY	-	PLC	UCP-421	*	-	-	-	-	
58	XP-402A-M-T	CONDENSATE PUMP-A MOTOR 40-P-402A ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
59	XP-402B-M-T	CONDENSATE PUMP-B MOTOR 40-P-402B ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
VD-1208-301A-PID-108 TURBINE GOVERNING SYSTEM PID																		
60	XZSH-42121	TTV OPEN DETECTION	SW	L	-	-	-	1	PRO(N AMUR)	-	PLC	UCP-421	-	-	-	-	*	
61	XZSL-42121	TTV TRIP DETECTION	SW	L	-	-	-	1	PRO(N AMUR)	-	PLC	UCP-421	-	-	-	-	*	TTV CLOSE @ TURNING MOTOR/COMP. START PERMISSIVE
62	XZS-42142	TURNING GEAR ENGAGED	SW	L	-	-	-	1	PRO(N AMUR)	-	PLC	UCP-421	-	-	-	-	*	ENGAGED @ TURNING DEVICE (MOTOR) START PERMISSIVE

1-1. Digital Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION (SETPOINT)		SIGNAL		CONSUMER		APPLI CATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI .	CONT .	ALRM	TRIP	INT.	
63	HS-42149	REMOTE/LOCAL SELECTOR	COS	LGB	-	-	LOCAL	REMOTE	DRY	-	PLC	UCP-421	-	*	-	-	-	Exd
64	HS-42130A	SHUTDOWN PB ON LOCAL (FIELD)	PB	LGB	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	*	-	-	-	(Mushroom & Lockable type) *Redundant Exd
65	HS-42131	TRIP RESET PB	PB	LGB	-	-	-	RESET	DRY	-	PLC	UCP-421	-	*	-	-	-	Exd
66	HS-42132	TURBINE START PB	PB	LGB	-	-	-	START	DRY	-	PLC	UCP-421	-	*	-	-	-	
67	HS-42133R	TURBINE SPEED RAISE	PB	LGB	-	-	-	RAISE	DRY	-	PLC	UCP-421	-	*	-	-	-	
68	HS-42133L	TURBINE SPEED LOWER	PB	LGB	-	-	-	LOWER	DRY	-	PLC	UCP-421	-	*	-	-	-	
69	HS-42141	OVERSPEED TRIP TEST ENABLE	COS	LGB	-	-	-	EOST	DRY	-	PLC	UCP-421	-	*	-	-	-	
70	HS-42142	TURNING MOTOR START PB	PB	LGB	-	-	-	START	DRY	-	PLC	UCP-421	-	*	-	-	-	
71	HS-42143	TURNING MOTOR STOP PB	PB	LGB	-	-	STOP	-	DRY	-	PLC	UCP-421	-	*	-	-	-	
72	HS-42144	LOCAL LAMP TEST PB	PB	LGB	-	-	-	TEST	DRY	-	PLC	UCP-421	-	*	-	-	-	
73	HS-42145	TURBINE TRIP SOV-A TEST PB	PB	LGB	-	-	-	TEST	DRY	-	PLC	UCP-421	-	*	-	-	-	
74	HS-42146	TURBINE TRIP SOV-B TEST PB	PB	LGB	-	-	-	TEST	DRY	-	PLC	UCP-421	-	*	-	-	-	
75	XZS-42141A	MANUAL BLOCK VALVE FOR TURBINE TRIP SOV-A TEST	SW	L	-	-	-	1	PRO(N AMUR)	-	PLC	UCP-421	-	*	-	-	*	NOT 1 @ START PERMISSIVE
76	XZS-42141B	MANUAL BLOCK VALVE FOR TURBINE TRIP SOV-B TEST	SW	L	-	-	-	1	PRO(N AMUR)	-	PLC	UCP-421	-	*	-	-	*	NOT 1 @ START PERMISSIVE
77	XP-401C-M-R	TURNING MOTOR 40-M-401C RUNNING	CUST MCC	AMM MCC	-	-	-	RUNNING	DRY	-	PLC	UCP-421	*	-	-	-	-	
78	XP-401C-M-T	TURNING MOTOR 40-M-401C ELECTRIC FAULT	CUST MCC	AMM MCC	-	-	FAULT	-	DRY	-	PLC	UCP-421	-	-	*	-	*	
79	XS-4211	COMPRESSOR PARTIAL TRIP	FCS	CCR	-	-	PARTIAL TRIP	-	DRY	-	PLC	UCP-421	-	-	*	-	-	*Redundant
80	XA-42121	505 COMMON ALARM	505	UCP-421	-	-	ALARM	-	DRY	-	PLC	UCP-421	-	-	*	-	-	

1-1. Digital Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION (SETPOINT)		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
81	XS-42125	505 TRIP	505	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
82	XA-42122	OVERSPEED TRIP MODULE COMMON ALARM	OSTM	UCP-421	-	-	ALARM	-	DRY	-	PLC	UCP-421	-	-	*	-	-	
83	XS-42122	TURBINE OVERSPEED TRIP	OSTM	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant
84	XA-42152A	POWER EXCHANGE BOX POWER 1 FAULT	VC	L	-	-	FAULT	-	DRY	-	PLC	UCP-421	*	-	*	-	-	Exd
85	XA-42152B	POWER EXCHANGE BOX POWER 2 FAULT	VC	L	-	-	FAULT	-	DRY	-	PLC	UCP-421	*	-	*	-	-	Exd
86	XS-4215	TIME SYNCHRONIZATION PULSE FROM FCS	FCS	CCR	-	-	-	AT 5:00AM	PULSE	-	PLC	UCP-421	-	-	-	-	-	As pulse type for 5 second duration(contact is closed for 5 sec,time will be adjust in rising edge plus)
																		Delete
		PLC CABINET																
87	HS-42130C	SHUTDOWN PB(ON DOOR OF COMP. CONTROL PANEL)	PLC	UCP-421	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	(Mushroom & Lockable type) *Redundant
88	XA-42143	AUXILIARY POWER SUPPLY COMMON FAILURE ALARM	SW	UCP-421	-	-	ALARM	-	DRY	-	PLC	UCP-421	-	-	*	-	-	
89	XA-42144	PLC PANEL INTERNAL TEMP.	SW	UCP-421	-	-	ALARM	-	DRY	-	PLC	UCP-421	-	-	*	-	-	
		HARDWARE CONSOLE																
90	HS-42130D	EMERGENCY SHUTDOWN PB(ON THE HARDWARE CONSOLE)	PB	CCR	-	-	TRIP	-	DRY	-	PLC	UCP-421	-	-	-	*	-	*Redundant

1-3. Digital Output from PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-101 AIR COMPRESSOR PID																		
1	HY-42161A	LP COMP. DISCHARGE VENT VALVE SOV	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	*Redundant CV OPEN @ OVDC & IS TYPE
2	FY-42162A	HP COMP. DISCHARGE VENT VALVE SOV	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	*Redundant CV OPEN @ OVDC & IS TYPE
3	XY-42163	HP COMP. SECTION-4 DISCHARGE BALL VALVE SOV	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	*Redundant CV CLOSE @ OVDC & IS TYPE
4	XY-42164	HP COMP. AIR FOR INSTRUMENT AIR DISCHARGE BALL VALVE SOV	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	*Redundant CV CLOSE @ OVDC & IS TYPE
VD-1208-301A-PID-102 STEAM TURBINE PID																		
5	XY-42111	TURBINE INDUCTION STEAM PRESS CUTOFF VALVE SOV	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	*Redundant CV CLOSE @ OVDC & IS TYPE
VD-1208-301A-PID-103 LUBE OIL SYSTEM (TANK) PID																		
6	XL-42101	STANDBY OIL PUMP MOTOR 40-PM-450B RUNNING LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LCS	*	-	-	-	-	Exd
7	XL-42103	EMERGENCY OIL PUMP MOTOR 40-PM-450C RUNNING LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LCS	*	-	-	-	-	
8	XL-42105	ELECTRIC OIL HEATER 40-H-421 ON LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LCS	*	-	-	-	-	
9	XL-42107	OIL MIST FAN 40-X-421-FM RUNNING LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LCS	*	-	-	-	-	
10	XP-450B-M-ST	STANDBY OIL PUMP MOTOR 40-PM-450B START COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
11	XP-450B-M-SP	STANDBY OIL PUMP MOTOR 40-PM-450B STOP COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND
12	XP-450C-M-ST	EMERGENCY OIL PUMP MOTOR 40-PM-450C START COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
13	XP-450C-M-SP	EMERGENCY OIL PUMP MOTOR 40-PM-450C STOP COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND
14	XH-421-ST	ELECTRIC OIL HEATER 40-H-421 ON COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
15	XH-421-SP	ELECTRIC OIL HEATER 40-H-421 OFF COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND

1-3. Digital Output from PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION		SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
16	XP-421-FM-ST	OIL MIST FAN 40-X-421-FM START COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
17	XP-421-FM-SP	OIL MIST FAN 40-X-421-FM STOP COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND
VD-1208-301A-PID-105 MACHINE MONITORING DIAGRAM																		
18	XS-42150	3500 MODULE RESET	PLC	UCP-421	-	-	-	RESET	DRY	-	BN	UCP-421	-	-	-	-	-	
VD-1208-301A-PID-107 TURBINE STEAM CONDENSER PID																		
19	XL-42134A	CONDENSATE PUMP-A 40-P-402A RUNNING LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LCS	*	-	-	-	-	Exd
20	XL-42134B	CONDENSATE PUMP-B 40-P-402B RUNNING LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LCS	*	-	-	-	-	
21	XP-402A-M-ST	CONDENSATE PUMP-A 40-P-402A START COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
22	XP-402A-M-SP	CONDENSATE PUMP-A 40-P-402A STOP COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND
23	XP-402B-M-ST	CONDENSATE PUMP-B 40-P-402B START COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
24	XP-402B-M-SP	CONDENSATE PUMP-B 40-P-402B STOP COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND
VD-1208-301A-PID-108 TURBINE GOVERNING SYSTEM PID																		
25	XL-42130	COMMON TRIP LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LGB	*	-	-	-	-	Exd
26	XL-42131	COMMON ALARM LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LGB	*	-	-	-	-	
27	XL-42132	TURBINE LOCAL OPERATION LAMP (LOCAL MODE)	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LGB	*	-	-	-	-	

1-3. Digital Output from PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	NOR. OPE.	CONTACT ACTION		SIGNAL		CONSUMER		APPLI CATION/OUTPUT					REMARKS
			TYPE	LOC.			OPEN	CLOSE	TYPE	RANGE	TYPE	LOC.	INDI .	CONT.	ALRM	TRIP	INT.	
28	XL-42133	READY TO START LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LGB	*	-	-	-	-	Exd
29	XL-42142	TURNING MOTOR 40-M-401 RUNNING LAMP	PLC	UCP-421	-	-	-	-	WET	24VDC	LAMP	LGB	*	-	-	-	-	
30	XP-401C-M-ST	TURNING MOTOR 40-M-401C START COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	24VDC (2 SEC. POSITIVE PULSE)
31	XP-401C-M-SP	TURNING MOTOR 40-M-401C STOP COMMAND	PLC	UCP-421	-	-	-	-	WET	24VDC	CUST MCC	AMM MCC	-	*	-	-	-	OVDC AT STOP COMMAND
32	XY-42141A	TURBINE TRIP SOV-A TRIP	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	VALVE OPEN @ 0 VDC/*Redundant Exd
33	XY-42141B	TURBINE TRIP SOV-B TRIP	PLC	UCP-421	-	-	-	-	WET	24VDC	SOV	L	-	-	-	*	-	VALVE OPEN @ 0 VDC/*Redundant Exd
34	XS-4210	COMPRESSORE TRIPPED SIGNAL TO ESD	PLC	UCP-421	-	-	TRIPPED	NORMAL	DRY	-	RELAY	ESD	-	-	-	*	-	*Redundant
35	XS-42130	TRIP	PLC	UCP-421	-	-	TRIP	-	DRY	-	505	UCP-421	-	-	-	*	-	*Redundant
36	XS-42131	TRIP RESET	PLC	UCP-421	-	-	-	RESET	DRY	-	505	UCP-421	-	-	-	-	-	
37	XS-42132	TURBINE START	PLC	UCP-421	-	-	-	START	DRY	-	505	UCP-421	-	-	-	-	-	
38	XS-42133R	TURBINE SPEED RAISE	PLC	UCP-421	-	-	-	RAISE	DRY	-	505	UCP-421	-	-	-	-	-	
39	XS-42133L	TURBINE SPEED LOWER	PLC	UCP-421	-	-	-	LOWER	DRY	-	505	UCP-421	-	-	-	-	-	
40	XS-42140	START PERMISSIVE	PLC	UCP-421	-	-	-	ENALBE	DRY	-	505	UCP-421	-	-	-	-	-	
41	XS-42141	OVERSPEED TRIP TEST ENABLE	PLC	UCP-421	-	-	-	EOST	DRY	-	505	UCP-421	-	-	-	-	-	
42	HS-42147	REMOTE SPEED SETPOINT ENABLE	PLC	UCP-421	-	-	-	REMOTE	DRY	-	505	UCP-421	-	-	-	-	-	
43	XS-42149	REMOTE/LOCAL SELECTOR	PLC	UCP-421	-	-	REMOTE	LOCAL	DRY	-	505	UCP-421	-	-	-	-	-	
44	XS-42151	OVERSPEED TRIP MODULE RESET	PLC	UCP-421	-	-	-	RESET	DRY	-	OSTM	UCP-421	-	*	-	-	-	

1-4. Analog Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	SETPOINT				SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		LL	L	H	HH	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-101 AIR COMPRESSOR PID																						
1	PDT-42163A	COMP. 1ST STAGE SUCTION DIFF. PRESS.	TRANS	L	BarG	0	0.1	0.04	-	-	0.05	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
2	PDT-42163B	COMP. 1ST STAGE SUCTION DIFF. PRESS.	TRANS	L	BarG	0	0.1	0.04	-	-	0.05	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
3	TT-42161	LP COMP. SECTION-1 SUCTION TEMP.	TRANS	L	°C	0	100	48	-	-	53	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
4	PT-42163	LP COMP. SECTION-1 DISCHARGE PRESS.	TRANS	L	BarG	0	4	1.72	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
5	TT-42163	LP COMP. SECTION-1 DISCHARGE TEMP.	TRANS	L	°C	0	400	174	-	-	191	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
6	LT-42162	DRAIN SEPARATOR LEVEL FOR LP COMP. SECTION-2	TRANS	L	mm KPa	0 -15.04	1600 0.96	800 -7.52	-	-	1240 -3.38	-	ANA	4-20mA	PLC	UCP-421	*	*	*	-	-	*Redundant
7	PT-42165	LP COMP. SECTION-2 SUCTION PRESS.	TRANS	L	BarG	0	4	1.42	-	1.28	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
8	TT-42165	LP COMP. SECTION-2 SUCTION TEMP.	TRANS	L	°C	0	100	49	-	-	53	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
9	PT-42167	LP COMP. SECTION-2 DISCHARGE PRESS.	TRANS	L	BarG	0	16	6.03	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
10	TT-42167	LP COMP. SECTION-2 DISCHARGE TEMP.	TRANS	L	°C	0	400	189	-	-	208	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
11	LT-42163	DRAIN SEPARATOR LEVEL FOR HP COMP. SECTION-3	TRANS	L	mm KPa	0 -15.04	1600 0.96	800 -7.52	-	-	1240 -3.38	-	ANA	4-20mA	PLC	UCP-421	*	*	*	-	-	*Redundant
12	PT-42169	HP COMP. SECTION-3 SUCTION PRESS.	TRANS	L	BarG	0	16	5.63	-	5.07	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	*Redundant
13	TT-42169	HP COMP. SECTION-3 SUCTION TEMP.	TRANS	L	°C	0	100	49	-	-	53	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	*Redundant
14	PT-42171	HP COMP. SECTION-3 DISCHARGE PRESS.	TRANS	L	BarG	0	40	17.09	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
15	TT-42171	HP COMP. SECTION-3 DISCHARGE TEMP.	TRANS	L	°C	0	400	178	-	-	196	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
16	LT-42164	DRAIN SEPARATOR LEVEL FOR HP COMP. SECTION-4	TRANS	L	mm KPa	0 -11.28	1200 0.72	600 -5.64	-	-	940 -2.44	-	ANA	4-20mA	PLC	UCP-421	*	*	*	-	-	*Redundant
17	PT-42173	HP COMP. SECTION-4 SUCTION PRESS.	TRANS	L	BarG	0	40	16.59	-	14.9	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	

1-4. Analog Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	SETPOINT				SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		LL	L	H	HH	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
18	TT-42173	HP COMP. SECTION-4 SUCTION TEMP.	TRANS	L	°C	0	100	66	-	-	73	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
19	PT-42175	HP COMP. SECTION-4 DISCHARGE PRESS	TRANS	L	BarG	0	100	38	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	*Redundant
20	TT-42175	HP COMP. SECTION-4 DISCHARGE TEMP.	TRANS	L	°C	0	400	182	-	-	200	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	*Redundant
21	FT-42162	HP COMP. SECTION-4 DISCHARGE FLOW	TRANS	L	Nm3/h	0	95000	81558	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	*	-	-	-	*Redundant
VD-1208-301A-PID-102 STEAM TURBINE PID																						
22	PT-42124	TURBINE EXHAUST STEAM PRESS	TRANS	L	BarG	-1	1.5	-0.86	-	-	-0.4	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	NOT H @ START PERMISSIVE
23	TT-42118	TURBINE EXHAUST STEAM TEMP.	TRANS	L	°C	0	200	52.7	-	-	120	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
24	FT-42111	TURBINE INDUCTION STEAM FLOW	TRANS	L	Kg/h	0	11000	1454/10000	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	*	-	-	-	
25	FT-42102	TURBINE INLET STEAM FLOW	TRANS	L	Kg/h	0	105737.5	73764	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
26	PT-42122	TURBINE GOV. VALVE CHEST PRESS.	TRANS	LGB	BarG	0	100	44	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
27	PT-42123	TURBINE AFTER 1ST STAGE PRESS.	TRANS	LGB	BarG	0	40	25	-	-	30	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
28	PT-42125	TURBINE INLET STEAM PRESS	TRANS	LGB	BarG	0	100	44	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
29	TT-42119	TURBINE INLET STEAM TEMP.	TRANS	L	°C	0	600	385	-	365	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
VD-1208-301A-PID-103 LUBE OIL SYSTEM (TANK) PID																						
30	LT-42101	OIL RESERVOIR LEVEL	TRANS	L	mm KPa	0 -16.12	1750 -1.2	850 -7.83	-	800 -7.37	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	L @ HEATER OFF COMMAND
31	TT-42101	OIL RESERVOIR TEMP.	TRANS	L	°C	0	160	70	-	38	75	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	HEATER ON/OFF COMMAND
32	PT-42111	MAIN OIL PUMP OUTLET PRESS.	TRANS	LGB	BarG	0	25	11.8	-	9.5	11.8	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	L @ AOP AUTO START H @ MOP RUNNING
33	PT-42112	STANDBY OIL PUMP OUTLET PRESS.	TRANS	LGB	BarG	0	25	11.8	-	-	11.8	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	

1-4. Analog Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	SETPOINT				SIGNAL		CONSUMER		APPLI CATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		LL	L	H	HH	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
34	PT-42113	EMERGENCY OIL PUMP OUTLET PRESS.	TRANS	LGB	BarG	0	6	2.5	-	-	2.5	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	H @ EOP RUNNING
35	TT-42105	OIL COOLER OUTLET TEMP.	TRANS	L	°C	0	160	59	-	44	65	-	ANA	4-20mA	PLC	UCP-421	*	*	*	-	-	NOT L @ START PERMISSIVE *Redundant
36	PDT-42102	OIL FILTER DIFF. PRESS.	TRANS	LGB	BarG	0	4	0.15	-	-	2.3	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
37	FT-42101	STEAM TURBINE FOR OIL UNIT FLOW	TRANS	L	Kg/h	0	2120	1869	-	1495	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
38	TT-42110	STEAM TURBINE FOR OIL UNIT EXHAUST TEMP.	TRANS	L	°C	0	400	190	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	*	-	-	-	*Redundant
VD-1208-301A-PID-104 LUBE OIL SYSTEM (BASE) PID																						
39	LT-42102	LUBE OIL RUNDOWN TANK LEVEL	TRANS	L	mm KPa	0 0	4000 34.104	3900 33.251	-	3850 32.825	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	NOT L @ START PERMISSIVE
40	PT-42114	LUBE OIL HEADER PRESS.	TRANS	LGB	BarG	0	4	1.4	-	0.84	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	NOT L @ TURNING MOTOR/COMP. START PERMISSIVE
41	PT-42115A	LUBE OIL HEADER PRESS. (TRIP) (A)	TRANS	LGB	BarG	0	4	1.4	0.56	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	*	LL (2003) @ TRIP
42	PT-42115B	LUBE OIL HEADER PRESS. (TRIP) (B)	TRANS	LGB	BarG	0	4	1.4	0.56	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	*	
43	PT-42115C	LUBE OIL HEADER PRESS. (TRIP) (C)	TRANS	LGB	BarG	0	4	1.4	0.56	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	*	
VD-1208-301A-PID-106 SEAL GAS PID																						
44	PT-42181	SEAL GAS PRESS.	TRANS	L	BarG	0	4	0.5	-	0.3	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	*	NOT L @ OIL PUMP START PERMISSIVE

1-4. Analog Input to PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	SETPOINT				SIGNAL		CONSUMER		APPLI CATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		LL	L	H	HH	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-107 TURBINE STEAM CONDENSER PID																						
45	LT-42105A	MAIN CONDENSER WATER LEVEL	TRANS	L	mm KPa	0 -10.81	1150 0.69	575 -5.4	480 -6.3	517.5 -5.95	632.5 -4.86	690 -4.3	ANA	4-20mA	PLC	UCP-421	*	*	*	-	*	LEVEL A HH @STANDBY PUMP AUTO START LL @STANDBY PUMP AUTO STOP COMMAND *Redundant
46	LT-42105B	MAIN CONDENSER WATER LEVEL	TRANS	L	mm KPa	0 -10.81	1150 0.69	575 -5.4	-	517.5 -5.95	632.5 -4.86	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
47	FT-42105	MAIN CONDENSER WATER DISCHARGE FLOW	TRANS	L	Kg/h	0	120000	75218	-	49000	106000	-	ANA	4-20mA	PLC	UCP-421	*	-	*	-	-	
VD-1208-301A-PID-108 TURBINE GOVERNING SYSTEM PID																						
48	SI-42130	ACTUAL SPEED TO PLC	ANA	505	rpm	0	15000		-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
49	SY-42131	GOVERNOR SPEED SETPOINT TO PLC	ANA	505	rpm	0	15000		-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	-	-	
50	GZT-42141	E/H ACTUATOR POSITION FEEDBACK	TRANS	L	%	0	100	-	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	-	*	*	
51	PT-42143A	TURBINE CONTROL OIL PRESS. (TRIP)(A)	TRANS	LGB	BarG	0	25	9	5.5	7	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	-	LL (2003) @ TRIP DETECTED, GOVERNOR EXTERNAL TRIP
52	PT-42143B	TURBINE CONTROL OIL PRESS. (TRIP)(B)	TRANS	LGB	BarG	0	25	9	5.5	7	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	-	
53	PT-42143C	TURBINE CONTROL OIL PRESS. (TRIP)(C)	TRANS	LGB	BarG	0	25	9	5.5	7	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	-	
54	FIC-2012	REMOTE SETPOINT VALUE	FCS	CCR	NM3/H	0	100000	-	-	-	-	-	ANA	4-20mA	PLC	UCP-421	*	-	*	*	-	*Redundant

1-5. Analog Output from PLC

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	ACTION		SIGNAL		CONSUMER		APPLI CATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		0%	100%	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-101 AIR COMPRESSOR PID																				
1	LY-42162	LP COMP. SECTION-2 SEPARATOR LEVEL CONTROL VALVE	PLC	UCP-421	%	0	100	-	4mA @ CLOSE	20mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
2	LY-42163	HP COMP. SECTION-3 SEPARATOR LEVEL CONTROL VALVE	PLC	UCP-421	%	0	100	-	4mA @ CLOSE	20mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
3	LY-42164	HP COMP. SECTION-4 SEPARATOR LEVEL CONTROL VALVE	PLC	UCP-421	%	0	100	-	4mA @ CLOSE	20mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
4	HY-42161B	LP COMP. DISCHARGE VENT VALVE	PLC	UCP-421	%	0	100	-	20mA @ CLOSE	4mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
5	FY-42162B	HP COMP. DISCHARGE VENT VALVE	PLC	UCP-421	%	0	100	-	20mA @ CLOSE	4mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
VD-1208-301A-PID-103 LUBE OIL SYSTEM (TANK) PID																				
6	TY-42105	OIL COOLER OUTLET TEMP. CONTROL VALVE	PLC	UCP-421	%	0	100	-	4mA @ COOL OIL OPEN	20mA @ HOT OIL OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
7	TY-42110	STEAM TURBINE FOR OIL UNIT EXHAUST TEMP. CONTROL VALVE	PLC	UCP-421	%	0	100	-	20mA @ CLOSE	4mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
VD-1208-301A-PID-107 TURBINE STEAM CONDENSER PID																				
8	LY-42105A	MAIN CONDENSER WATER LEVEL CONTROL VALVE (RETURN)	PLC	UCP-421	%	0	100	-	20mA @ CLOSE	4mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
9	LY-42105B	MAIN CONDENSER WATER LEVEL CONTROL VALVE (SPILL OVER)	PLC	UCP-421	%	0	100	-	4mA @ CLOSE	20mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	*Redundant
VD-1208-301A-PID-108 TURBINE GOVERNING SYSTEM PID																				
10	SIC-42130	REMOTE SPEED SETPOINT	PLC	UCP-421	rpm	1800	6114	-	-	-	ANA	4-20mA	505	UCP-421	-	*	-	-	-	*Redundant
11	GY-42141	E/H ACTUATOR FOR GV	505	UCP-421	%	0	100	-	4mA @ CLOSE	20mA @ OPEN	ANA	4-20mA	CV	L	-	*	-	-	-	

2-1. Analog Input to BENTLY MONITOR

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	SETPOINT				SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		LL	L	H	HH	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-105 MACHINE MONITORING DIAGRAM																						
1	VXT-42101	TURBINE RADIAL VIBRATION (GOV. SIDE X)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (1002) @ TRIP
2	VYT-42101	TURBINE RADIAL VIBRATION (GOV. SIDE Y)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	
3	VXT-42102	TURBINE RADIAL VIBRATION (EXH. SIDE X)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (1002) @ TRIP
4	VYT-42102	TURBINE RADIAL VIBRATION (EXH. SIDE Y)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	
5	VXT-42103	LP COMP. RADIAL VIBRATION (NDE X)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (1002) @ TRIP
6	VYT-42103	LP COMP. RADIAL VIBRATION (NDE Y)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	
7	VXT-42104	LP COMP. RADIAL VIBRATION (DE X)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (1002) @ TRIP
8	VYT-42104	LP COMP. RADIAL VIBRATION (DE Y)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	
9	VXT-42105	HP COMP. RADIAL VIBRATION (NDE X)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (1002) @ TRIP
10	VYT-42105	HP COMP. RADIAL VIBRATION (NDE Y)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	
11	VXT-42106	HP COMP. RADIAL VIBRATION (DE X)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (1002) @ TRIP
12	VYT-42106	HP COMP. RADIAL VIBRATION (DE Y)	PROX	L	μ mPP	0	150	<25.4	-	-	51	89	ANA	mV	BN	UCP-421	*	-	*	*	-	
13	ZT-42101A	TURBINE AXIAL POSITION (A)	PROX	L	mm	-1	1	-0.5-0.5			±0.5	±0.75	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
14	ZT-42101B	TURBINE AXIAL POSITION (B)	PROX	L	mm	-1	1	-0.5-0.5			±0.5	±0.75	ANA	mV	BN	UCP-421	*	-	*	*	-	
15	ZT-42102A	LP COMP. AXIAL POSITION (A)	PROX	L	mm	-1	1	-0.5-0.5			±0.5	±0.75	ANA	mV	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
16	ZT-42102B	LP COMP. AXIAL POSITION (B)	PROX	L	mm	-1	1	-0.5-0.5			±0.5	±0.75	ANA	mV	BN	UCP-421	*	-	*	*	-	

2-1. Analog Input to BENTLY MONITOR

NO.	PRODUCER TAG NO.	SERVICE	PRODUCER		ENG. UNIT	INSTRUMENT RANGE		NOR. OPE.	SETPOINT				SIGNAL		CONSUMER		APPLICATION/OUTPUT					REMARKS
			TYPE	LOC.		MIN	MAX		LL	L	H	HH	TYPE	RANGE	TYPE	LOC.	INDI.	CONT.	ALRM	TRIP	INT.	
VD-1208-301A-PID-105 MACHINE MONITORING DIAGRAM																						
1	TE-42131A	TURBINE THRUST BEARING TEMP. (ACTIVE SIDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
2	TE-42132A	TURBINE THRUST BEARING TEMP. (ACTIVE SIDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
3	TE-42133A	TURBINE THRUST BEARING TEMP. (NON ACTIVE SIDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
4	TE-42134A	TURBINE THRUST BEARING TEMP. (NON ACTIVE SIDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
5	TE-42135A	TURBINE JOURNAL BEARING TEMP. (GOV. SIDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
6	TE-42136A	TURBINE JOURNAL BEARING TEMP. (GOV. SIDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
7	TE-42137A	TURBINE JOURNAL BEARING TEMP. (EXH. SIDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
8	TE-42138A	TURBINE JOURNAL BEARING TEMP. (EXH. SIDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
9	TE-42139A	LP COMP. THRUST BEARING TEMP. (ACTIVE SIDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
10	TE-42140A	LP COMP. THRUST BEARING TEMP. (ACTIVE SIDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
11	TE-42141A	LP COMP. THRUST BEARING TEMP. (NON ACTIVE SIDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
12	TE-42142A	LP COMP. THRUST BEARING TEMP. (NON ACTIVE SIDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
13	TE-42143A	LP COMP. JOURNAL BEARING TEMP. (NDE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
14	TE-42144A	LP COMP. JOURNAL BEARING TEMP. (NDE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	
15	TE-42145A	LP COMP. JOURNAL BEARING TEMP. (DE A)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	HH (2002) @ TRIP
16	TE-42146A	LP COMP. JOURNAL BEARING TEMP. (DE B)	RTD	L	°C	0	150	<105	-	-	105	115	ANA	PT100	BN	UCP-421	*	-	*	*	-	

