










OWNER:  شرکت سست و سویی توستر ایران (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	MC :  شرکت سست و سویی توستر ایران (سهامی خاص)	UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER							
Project									Area
Owner Document Number: 17811-05A	BU	20	VD	303	IN	DIG	0043	Rev.:	Page
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## UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER

 شرکت سست و سویی توستر ایران (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
<b>Document Review</b>		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	DEC/18/2021	
<b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b>		

02	08/12/2021	For approval	HT	RB	KP	
01	19/10/2021	For approval	HT	RB	KP	
00	24/11/2020	For approval	HT	RB	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

<b>OWNER:</b>  شرکت ست دوهی توسعه ایرانین (سهایی گیس)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>							<b>EPC CONTRACTOR:</b>	
	<b>UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER</b>								
<b>MC :</b>  شرکت ست دوهی توسعه ایرانین (سهایی گیس)	<b>Project</b>	<b>Area</b>	<b>Phase</b>	<b>Unit</b>	<b>Dis.</b>	<b>Doc.</b>	<b>Seq.</b>	<b>Contract No : 52-98/445</b>	
<b>Owner Document Number: 17811-05A</b>	<b>BU</b>	<b>20</b>	<b>VD</b>	<b>303</b>	<b>IN</b>	<b>DIG</b>	<b>0043</b>	<b>Rev.:</b>	<b>Page</b>
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62.	X	X	X		
63.	X	X	X		
64.	X	X	X		
65.	X	X	X		
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Till 91			X		



## Airpack B.V.

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Client : Bushehr Petrochemical Company (BUPC)

Equipment location : Iran, Onshore

Client reference : Bushehr MEG Plant Project

Client dwg. no. : BU-20-VD-303-IN-DIG-0043

Airpack reference : 17811-05A

Airpack dwg. no. : 17811-05

Generation date : 06/11/2020

E & I manager : RBE

Last modifications : 07/12/2021

Last modifications by : htaher

Revision no. : 02



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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Title page / cover sheet	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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# NOTES ON ELECTRICAL DRAWINGS

MARK OF PLC IS SIEMENS S7-400 FH

ESD SIGNALS WILL BE CONNECTED HARDWIRED (4-WIRE CABLE)

ELECTRICAL SCHEME IS DRAWN IN NON ENERGIZED STATE

ACCEPT, RESET, CAN BE CONTROLLED ON THE UCP  
ALARMS-, TRIPS- AND RUNNING STATUS WILL BE VISIBLE WITH LAMPS ON UCP  
PROCESS VALUES AND ALARMS WILL BE VISIBLE ON UCP HMI

UCP IS LOCATED IN CONTROL ROOM  
MATERIAL: PAINTED SHEET STEEL (RAL 7035)  
INGRESS. PROTECTION: IP-42  
AREA CLASSIFICATION: SAFE AREA

JB ANALOG IS WALL MOUNTED ON SKID  
MATERIAL: SS316 (RAL 5015) BLUE  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: Eex'i'

NIS as per your I/O list

(RAL 9006) Gray

JB DIGITAL IS WALL MOUNTED ON SKID  
MATERIAL: SS316 (RAL 6021) GREEN  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: Eex'e'

Eex'd'

LCP IS WALL MOUNTED ON SKID  
MATERIAL: SS316 (RAL 6021) GREEN  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: Eex'e'

DISTRIBUTION PANEL IS WALL MOUNTED ON SKID  
MATERIAL: ALUMINIUM (RAL 9006) GRAY  
INGRESS. PROTECTION: IP-65  
AREA CLASSIFICATION: Eex'd'

GLANDS: NICKEL PLATED BRASS GLANDS WITH PVC SHROUDS, ISO METRIC THREADS , IP-66, DOUBLE COMPRESSION, Ex-d/Ex-d dual certified including Locknut, Earth tag & Sealing washer  
CABLE TRAYS: GALVANIZED STEEL WITHOUT COVER

AMBIENT TEMPERATURE: 5 / 55 °C

ALL "PE" CONNECTIONS WILL BE CONNECTED ON A "PE"-BAR  
ALL "ISE" CONNECTIONS WILL BE CONNECTED ON A "ISE"-BAR

- Terminal blocks shall be spring loaded Klippon type and vibration proof for JB
- Screens shall be insulated from earth at instrument side. They shall be continuous through to the control room marshaling cabinet where they will be connected to the clean system.

## COLOUR CODES INTERNAL WIRING

400 VAC, 50HZ, L1	BLACK
400 VAC, 50HZ, L3	BROWN
400 VAC, 50HZ, L3	GREY
110 VAC / 230 VAC, 50HZ, L	BROWN
110 VAC / 230 VAC, 50HZ, N	BLUE
24VDC +	RED
0 VDC	BLACK
CURRENT LOOPS	PURPLE
VOLT FREE CONTACTS	ORANGE
PROTECTION EARTH	GREEN / YELLOW
INSTRUMENT SAFETY EARTH	GREEN
INTRINSICALLY SAFE	BLUE

### REFERENCE DOCUMENTS:

	AIRPACK DOC. NO.	CUSTOMER DOC. NO.
P&ID FOR NITROGEN GAS BOOSTER	17811-03A	BU-20-VD-303-PR-DWG-0013
I/O LIST FOR NITROGEN GAS BOOSTER	17811-06A	BU-20-VD-303-IN-LST-0034
UCP/LCP/JB GENERAL ARRANGEMENT DRAWING & TERMINAL DETAILS FOR NITROGEN GAS BOOSTER INCL. BOM	17811-07A	BU-20-VD-303-IN-DWG-0039
SINGLE LINE DIAGRAM FOR POWER DISTRIBUTION PANEL FOR NITROGEN GAS BOOSTER	17811-49A	BU-20-VD-303-EL-DIG-0049



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	=
EQUIPMENT NO.	20-C-1002	Project description		CHECKED BY	RBE	+
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	2	

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=20-C-1002+UCP-C1002-01/4	SOLENOIDS	14	07/12/2021	htaher
=20-C-1002+UCP-C1002-01/5	PLC LAYOUT	15	07/12/2021	htaher
=20-C-1002+UCP-C1002-01/6	IO RACK I	16	07/12/2021	htaher
=20-C-1002+UCP-C1002-01/7	IO RACK II	17	07/12/2021	htaher
=20-C-1002+UCP-C1002-01/8	DISPLAY	18	07/12/2021	htaher
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		AIRPACK REF.	17811-05A	

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 EQUIPMENT NO. 20-C-1002  
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SUBJECT  
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 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
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# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-2TH11	EMERGENCY SHUTDOWN RELAY	SET@	
-2TH13		SET@	
-8A9		DISPLAY	
-3ESDR2		ESD relay	
-3ESDR8		ESD relay expansion	
-2F9		230VAC 6A	
-2F11		230VAC 2A	
-2F13		230VAC 4A	
-2F15		110VAC 10A	

Device tag	Function text	Tech. car.	Symbol
-2F15.1		24VDC 10A	
-2F17		110VAC 10A	
-2F17.1		24VDC 10A	
-5F2		24VDC 6A	
-5F11		24VDC 6A	
-2G15		QUINT DIODE	
-2H10			
-16H4	COMPRESSOR A OPERATIONAL XL-10006	GREEN	
-16H6	COMPRESSOR A RUNNING XL-10007	GREEN	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-16H8	COMPRESSOR A COMMON ALARM XL-10008	AMBER	
-16H10	COMPRESSOR A COMMON TRIP XL-10009	RED	
-17K16	COMPRESSOR A FORCED SHUTDOWN		
-18K4	COMPRESSOR A SOLENOID VALVE XY-001A		
-18K6	COMPRESSOR A SOLENOID VALVE XY-002A		
-18K8	SPARE		
-18K10	=		
-19K4	COMPRESSOR A MAIN MOTOR 20-M-1002 START/STOP		
-19K6	COMPRESSOR A OIL HEATER LG-10001 ON/OFF		

Device tag	Function text	Tech. car.	Symbol
-19K10			
-33K4			
-2M11			
-5M2	PLC POWER SUPPLY		
-5M3	S7-400 CPU		
-5M11	PLC POWER SUPPLY		
-5M12	S7-400 CPU		
-6M4	CP 343-1		
-6M7	32 DI	SM321 24VDC	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
Device tag list : =20-C-1002+UCP-C1002-01-16H8 - =20-C-1002+UCP-C1002-01-6M7	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE	+
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	7	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-6M11	32 DO	SM322 24VDC	
-7M4	CP 343-1		
-7M7	32 DI	SM321 24VDC	
-7M11	32 DO	SM322 24VDC	
-2S2			
-2S4			
-2S6			
-3S3		Red	
-10S4	GREEN		

Device tag	Function text	Tech. car.	Symbol
-10S6	RED		
-10S8	BLACK		
-10S10	=		
-10S12	=		
-2U13			
-9U4			
-9U6			
-9U7			
-16U12	COMPRESSOR A HOURMETER HM-10001		



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT	
Device tag list : =20-C-1002+UCP-C1002-01-6M11 - =20-C-1002+UCP-C1002-01-16U12	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A



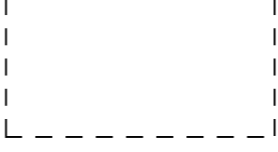
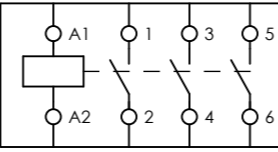
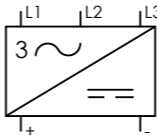
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CHECKED BY	RBE	+
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	8	

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
-2V15	CONVERTER	110VAC 24VDC 10A	
-2V17	CONVERTER	110VAC 24VDC 10A	
+LP-C1002-01-3H4		GREEN	
+LP-C1002-01-3H6		GREEN	
+LP-C1002-01-3H8		AMBER	
+LP-C1002-01-3H10		RED	
+LP-C1002-01-2S4		GREEN	
+LP-C1002-01-2S6		RED	
+LP-C1002-01-2S8		BLACK	

Device tag	Function text	Tech. car.	Symbol
+LP-C1002-01-2S10		LOCAL/OFF/REMOTE	
+LP-C1002-01-4S3		Red	
+PD-C-1002-01-2F17		6A	
+PD-C-1002-01-2F17.1		6A	
+PD-C-1002-01-3F3		400VAC 100A	
+PD-C-1002-01-4F4		230VAC 5A	
+PD-C-1002-01-5K4	COMPRESSOR A MAIN MOTOR 20-C-1002-M START/STOP		
+PD-C-1002-01-5K6	COMPRESSOR A OIL HEATER LG-10001 ON/OFF		

# DEVICE TAG LIST

Device tag	Function text	Tech. car.	Symbol
+PD-C-1002-01-4TH8		Thermostat	
+PD-C-1002-01-3U2			
+PD-C-1002-01-3U2.1			
+PD-C-1002-01-4U2	CONTACTOR	5A	
+PD-C-1002-01-2V17	CONVERTER	400VAC 24VDC 5A	

Device tag	Function text	Tech. car.	Symbol

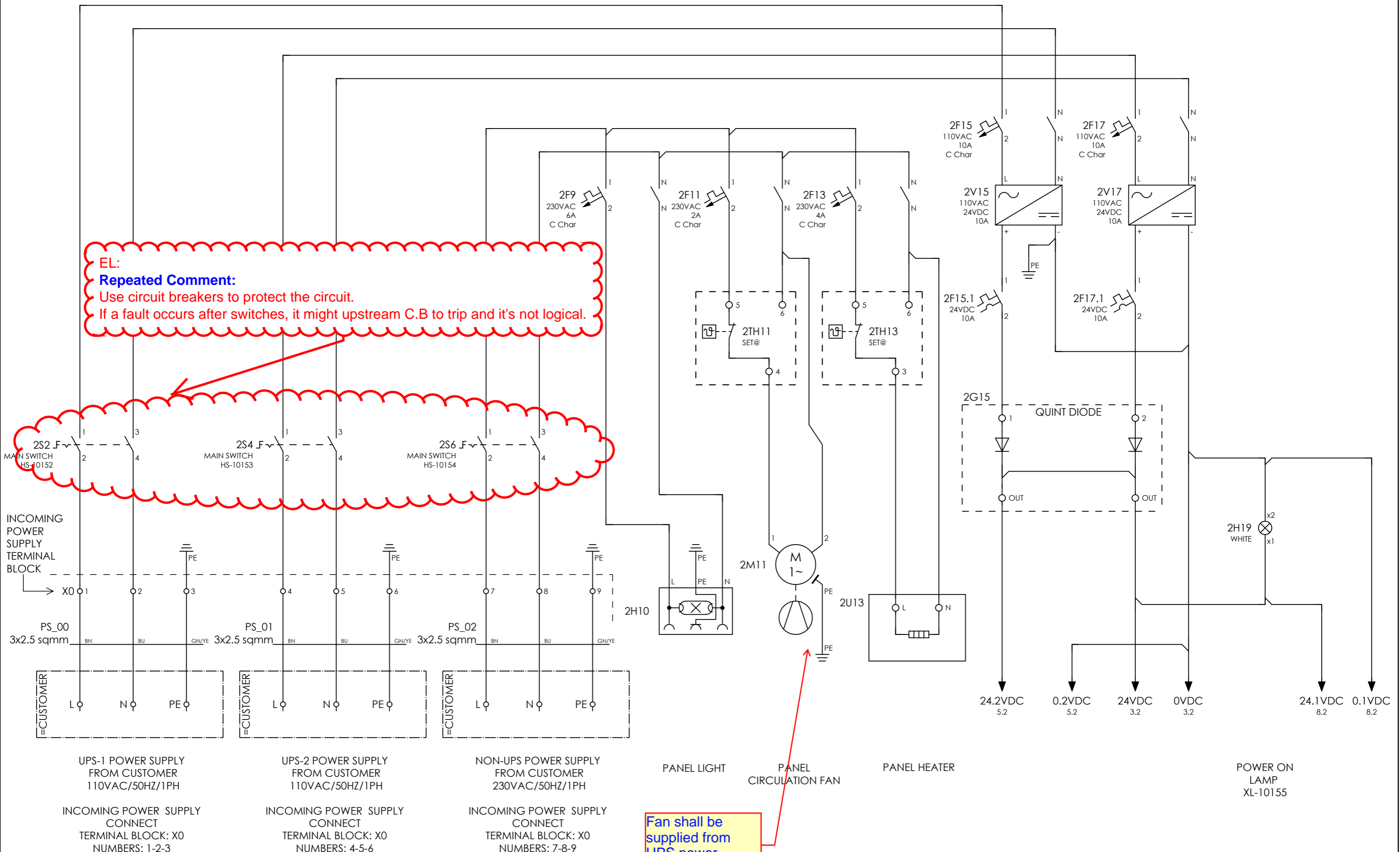
TERMINAL STRIP DEFINITION

UNIT CONTROL PANEL  
UCP-C1002-01

- X0 = POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER
- X1 = SOLENOIDS
- X2 = ANALOGUE INPUTS
- X3 = ANALOGUE OUTPUTS
- X4 = SERIAL COMMUNICATION MODBUS TCP/IP TO CUSTOMER
- X5 = CONNECTION PUSHBUTTONS / LAMPS
- X8 = SIGNALS TO / FROM DISTRIBUTION BOARD
- X9 = EMERGENCY SHUTDOWN
- X10 = SIGNALS TO ESD
- X11 = SIGNALS FROM FCS



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaheer	= 20-C-1002
EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	11	

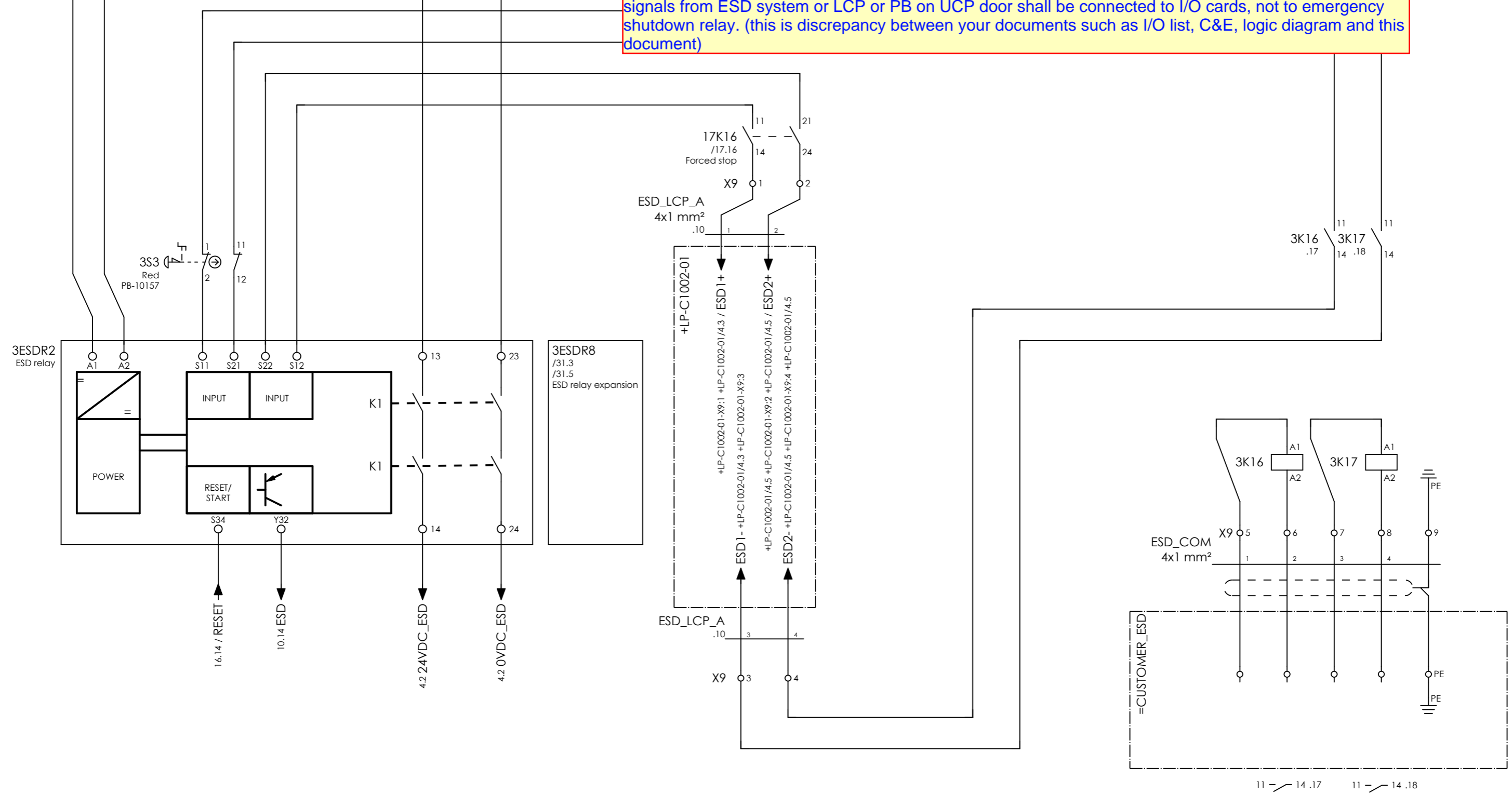


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	POWER SUPPLY
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	02
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
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		AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	12	

2.17 / 24VDC → 24VDC / 5.2  
 2.18 / 0VDC → 0VDC / 5.2

Using of emergency shutdown relay is not accepted. signals from ESD system or LCP or PB on UCP door shall be connected to I/O cards, not to emergency shutdown relay. (this is discrepancy between your documents such as I/O list, C&E, logic diagram and this document)



EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-10157

COMPRESSOR A ESD BUTTON LOCAL PB-10153

EMERGENCY SHUTDOWN TRIP COMMAND FROM CUSTOMER ESD HS-108-SD-1

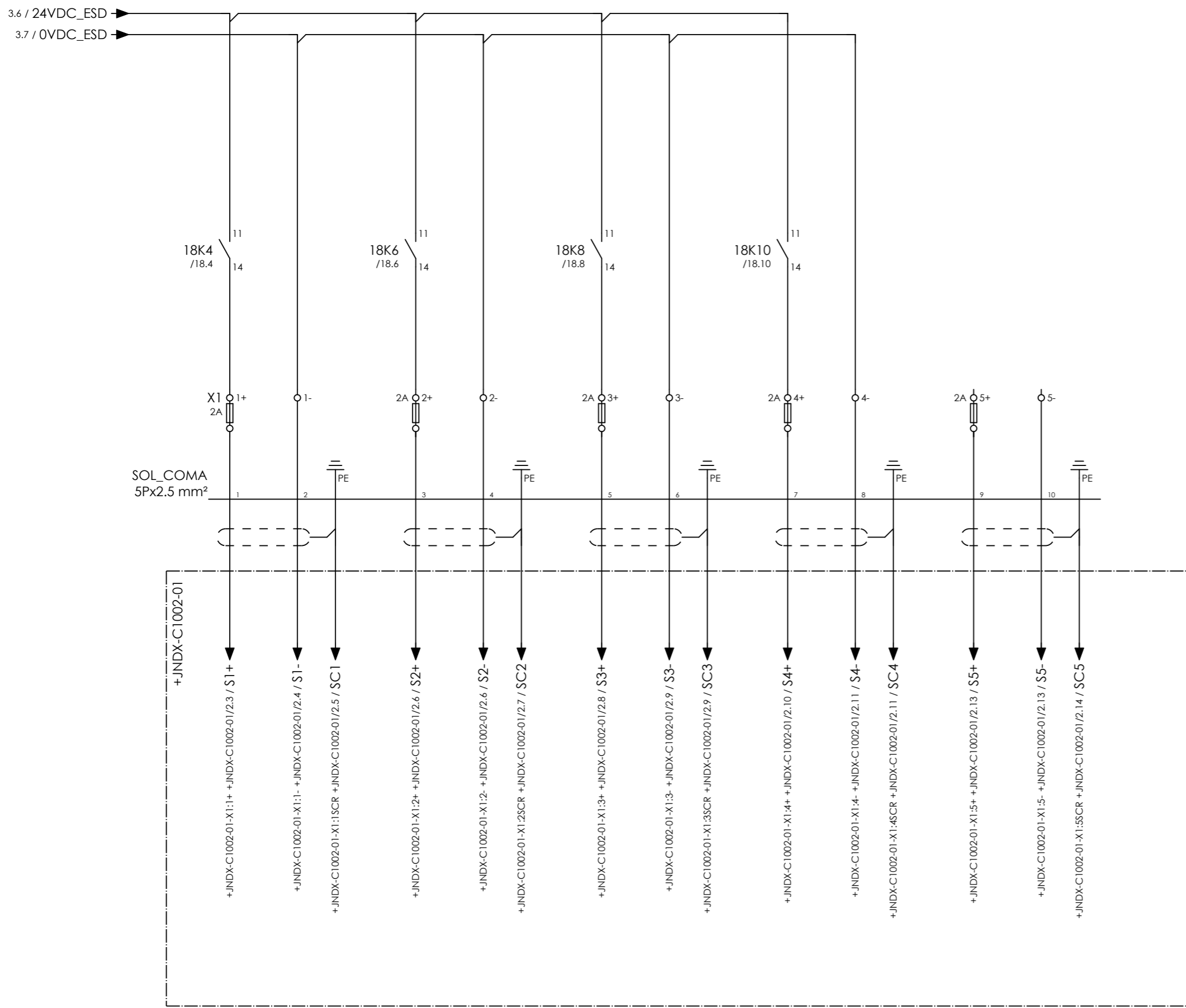


CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT EMERGENCY SHUTDOWN  
 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 CHECKED BY RBE  
 LAST MODIFICATION DATE 07/12/2021  
 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 13

= 20-C-1002  
 + UCP-C1002-01  
 CURRENT PAGE  
 3



COMPRESSOR A  
INLET  
SOLENOID VALVE  
XY-10151

COMPRESSOR A  
COOLING WATER INLET  
SOLENOID VALVE  
XY-10152

SPARE

SPARE

SPARE

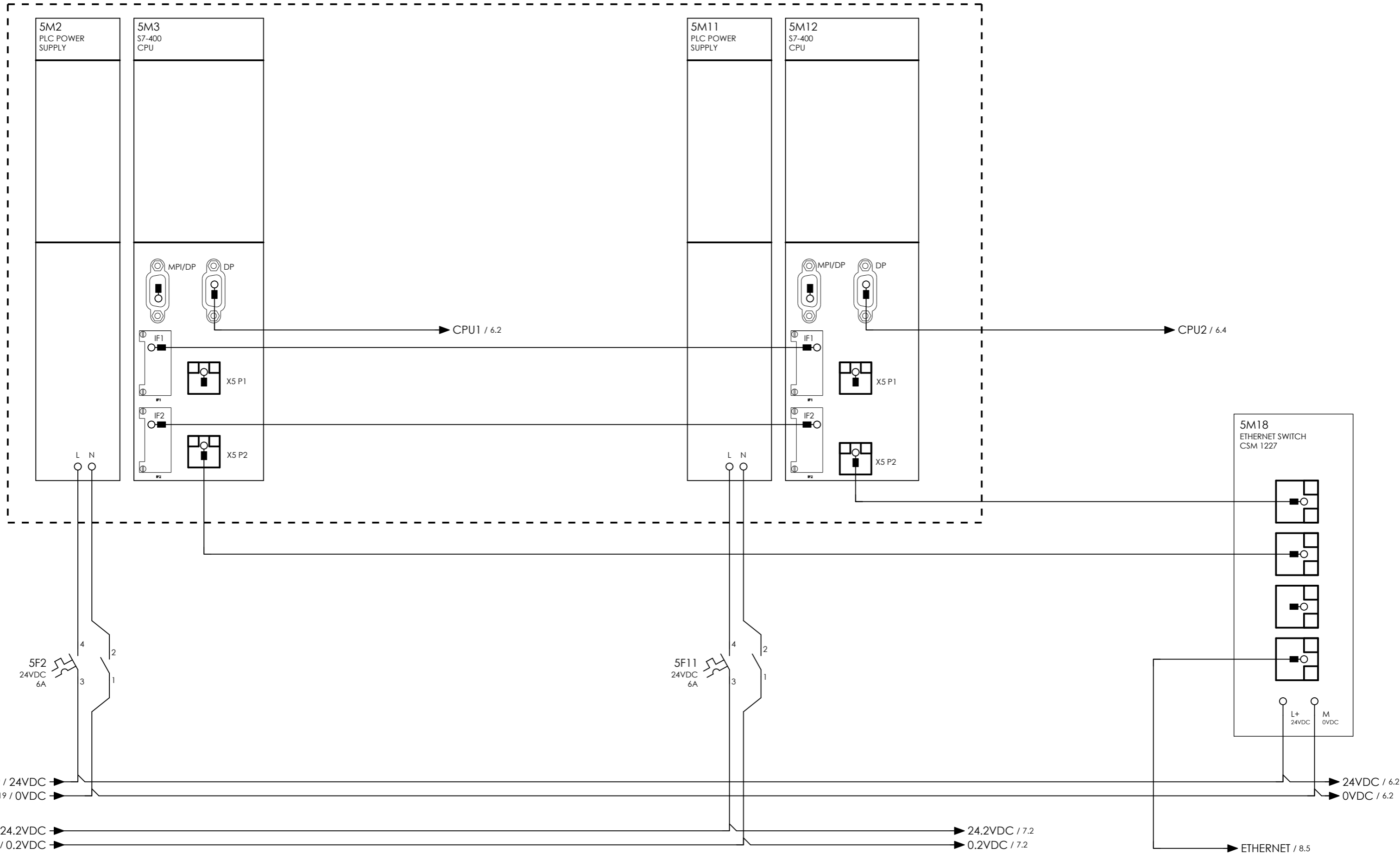


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SOLENOIDS	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	14

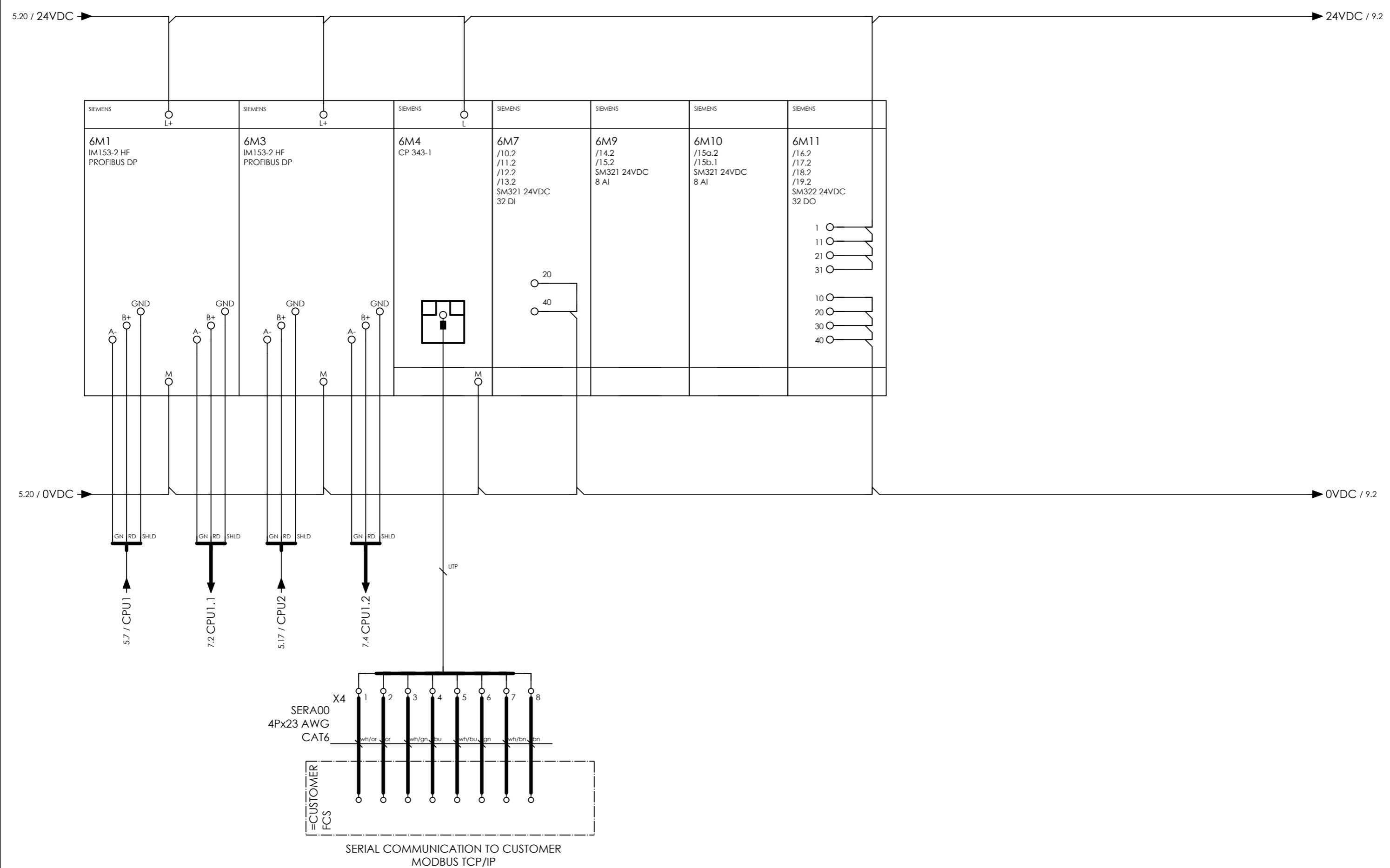
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+ UCP-C1002-01
CURRENT PAGE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT PLC LAYOUT	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	15	

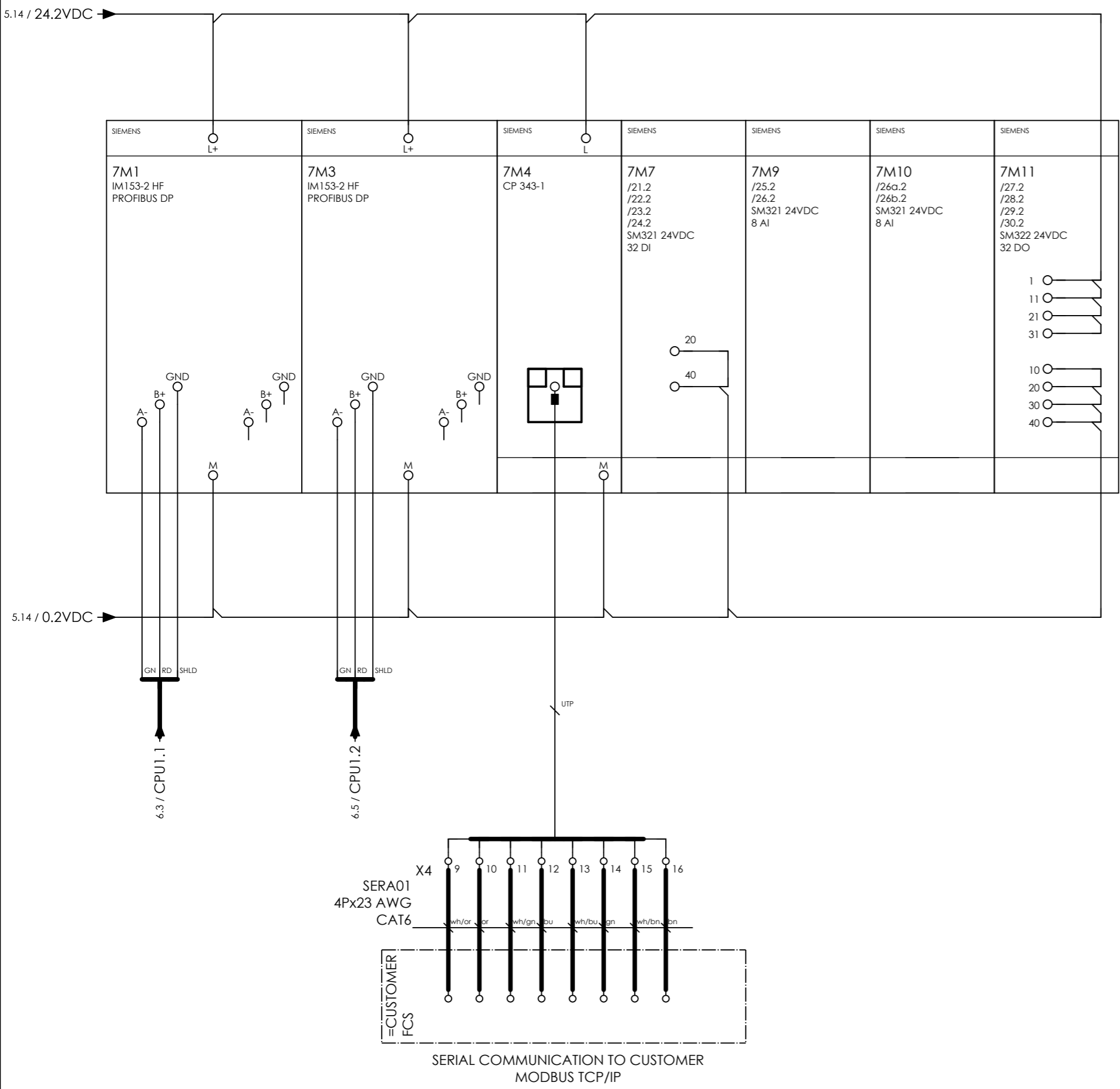



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT IO RACK I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	16

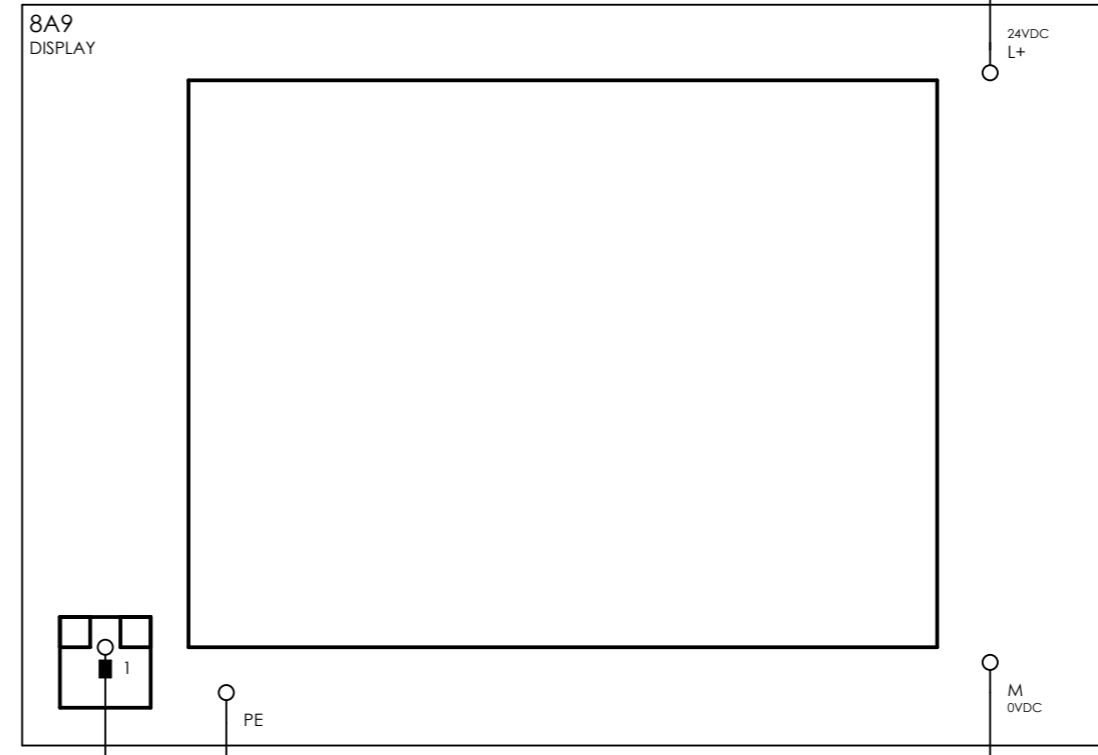
= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



	CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
	EQUIPMENT NO.	20-C-1002	IO RACK II		CHECKED BY	RBE	+ UCP-C1002-01
	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
	THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
			CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	17		

2.19 / 24.1VDC → 24.1VDC / 10.3

DISPLAY MOUNTED ON PANEL DOOR



5.18 / ETHERNET → UTP

2.20 / 0.1VDC → 0.1VDC / 16.2



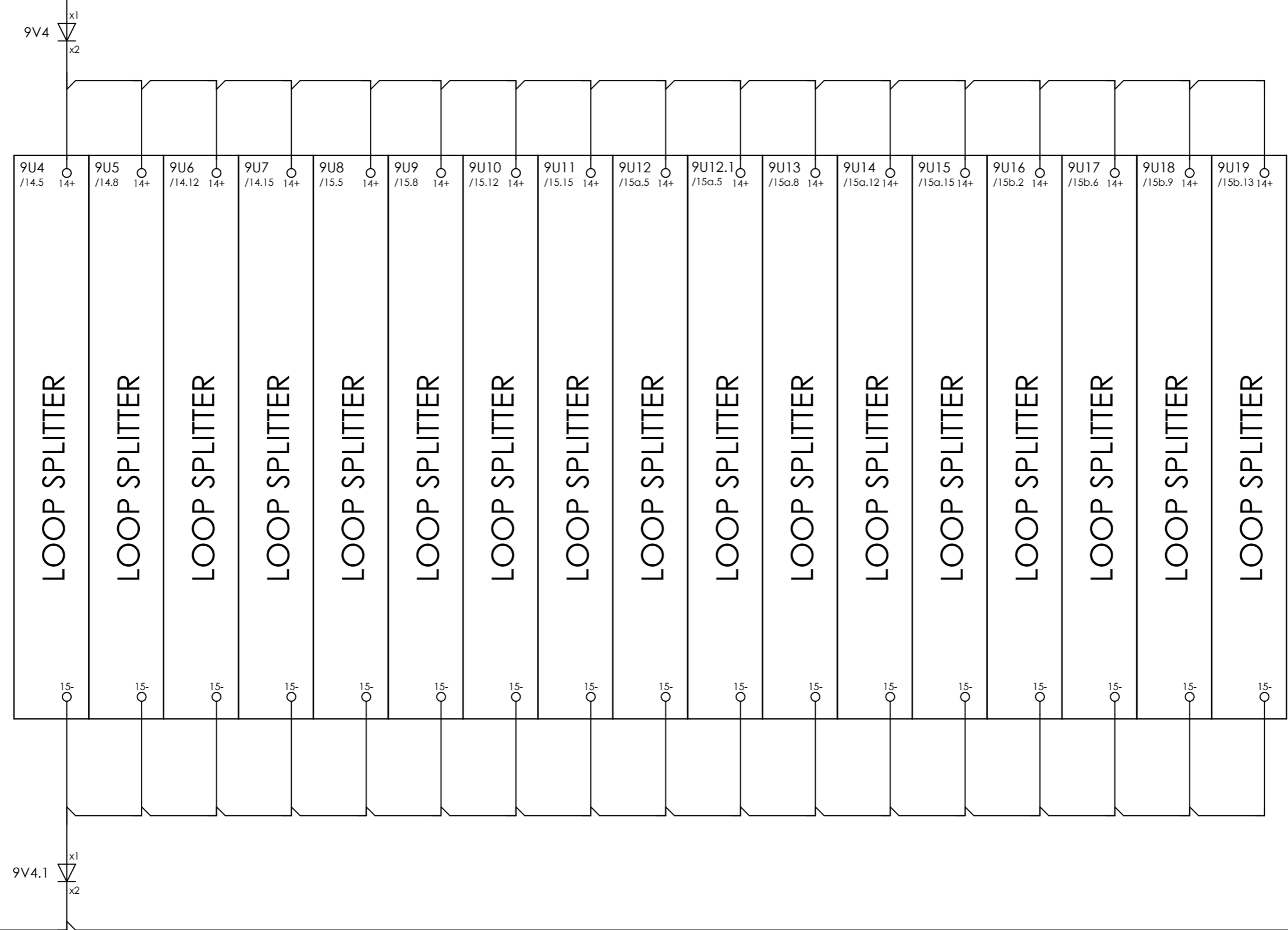
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DISPLAY	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	18

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE

6.18 / 24VDC → 24VDC / 11.3



6.18 / 0VDC → 0VDC / 17.2



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	LOOP SPLITTERS		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	19	

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	19	

8.19 / 24.1VDC →

10S4 E  
GREEN

10S6 E  
RED

10S8 E  
BLACK

10S10 E  
BLACK

10S12 E  
BLACK

ESD / 3.4

21.4 DI.1

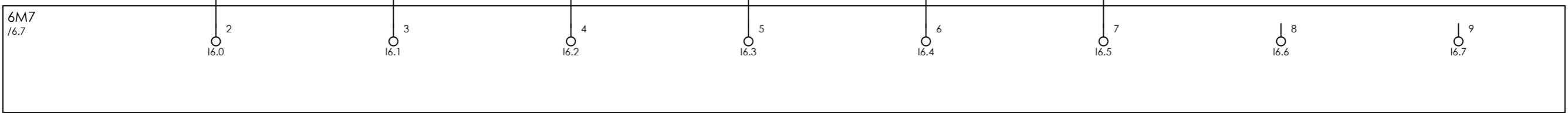
21.6 DI.2

21.8 DI.3

21.10 DI.4

21.12 DI.5

21.14 DI.6



COMPRESSOR A  
START  
PB-10155

COMPRESSOR A  
STOP  
PB-10156

COMPRESSOR A  
LAMPTEST  
PB-10158

COMPRESSOR A  
ACCEPT  
PB-10159

COMPRESSOR A  
RESET  
PB-10160

ESD  
ENGAGED

SPARE

SPARE

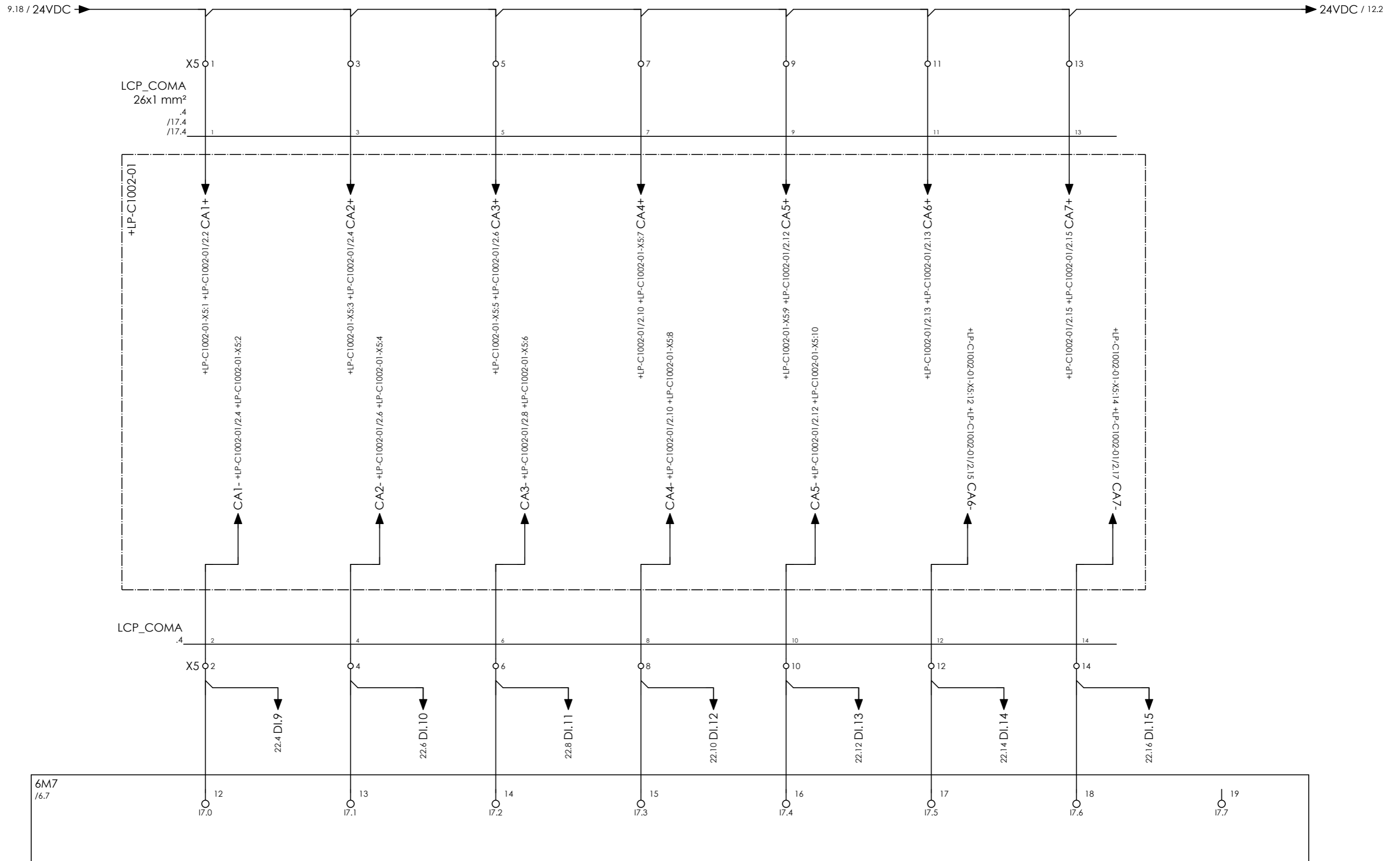


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	20

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
START  
PB-10151

COMPRESSOR A  
STOP  
PB-10152

COMPRESSOR A  
LAMPTEST  
PB-10154

COMPRESSOR A  
LOCAL  
HS-10151

COMPRESSOR A  
REMOTE  
HS-10151

SPARE

SPARE

SPARE

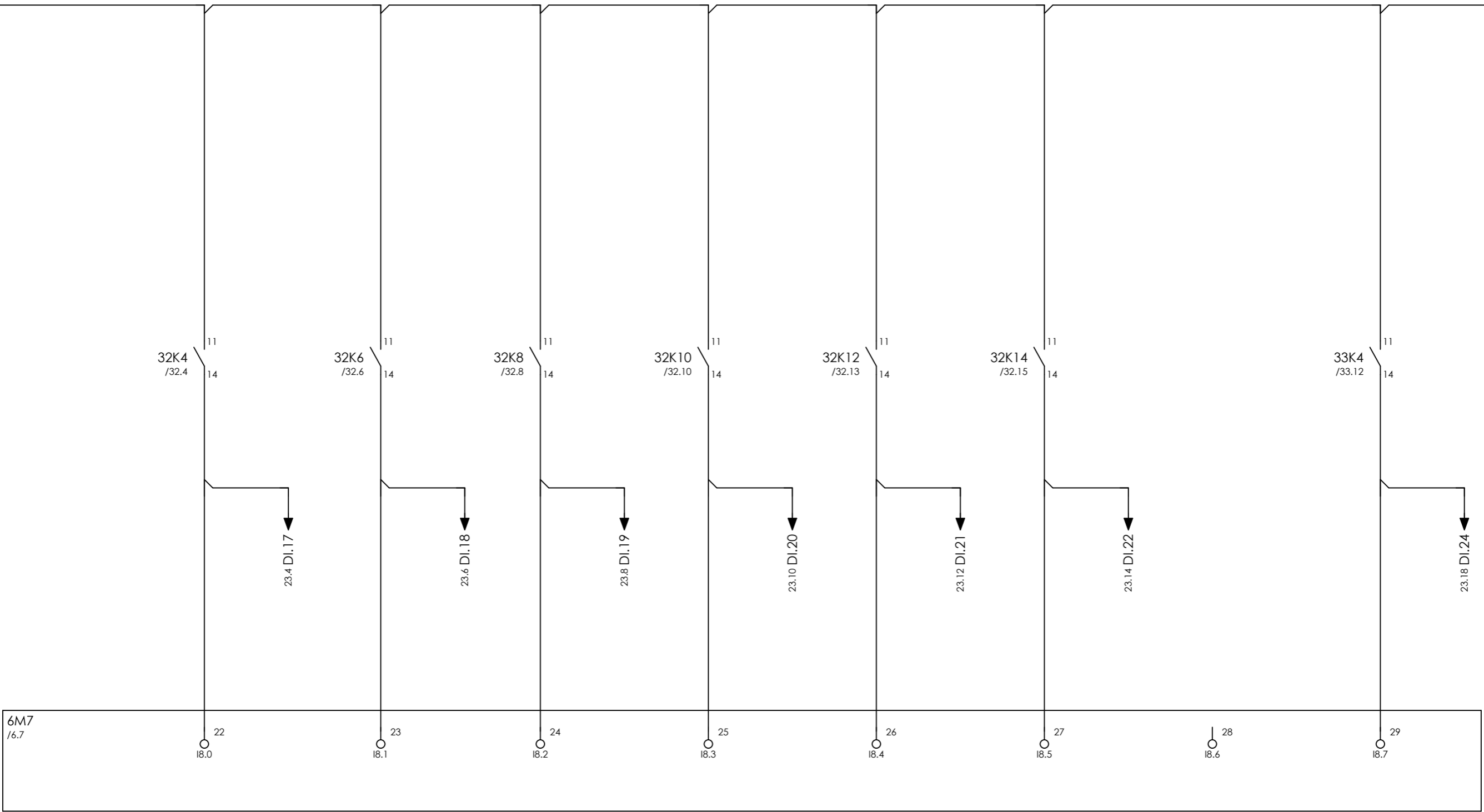


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	21	

11.19 / 24VDC → 24VDC / 13.2



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
RUNNING

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
FAULT

COMPRESSOR A  
OIL HEATER LG-10151  
ON

COMPRESSOR A  
OIL HEATER LG-10151  
FAULT

SPARE

SPARE

SPARE

TIME  
SYNCHRONIZATION  
XCS-115

XCS-108



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	DIGITAL INPUTS I		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	22	

12.19 / 24VDC → 24VDC / 32.2

34K10  
/34.10

11  
14

24.4 DI.25

6M7  
/6.7

32  
19.0

33  
19.1

34  
19.2

35  
19.3

36  
19.4

37  
19.5

38  
19.6

39  
19.7

PID CONTROL  
CONTROL VALVE  
ALARM

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE



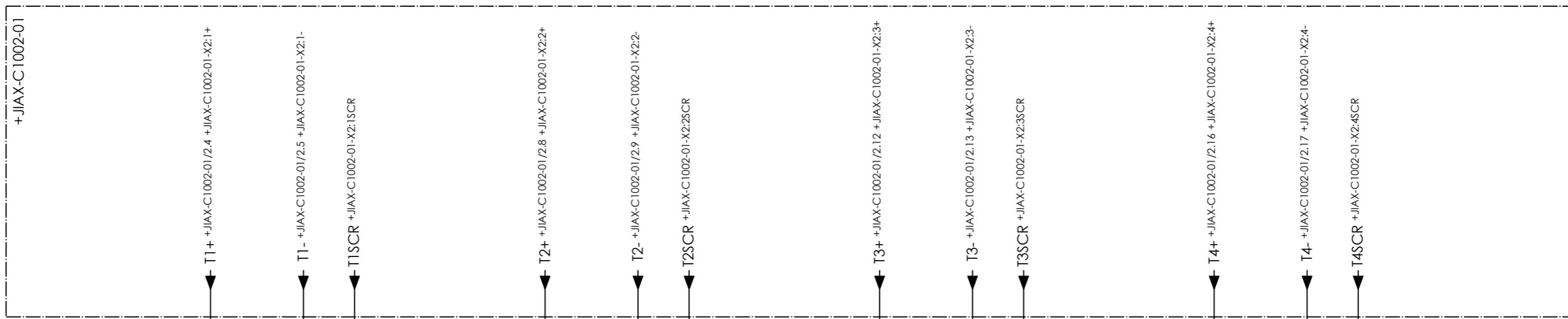
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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SUBJECT DIGITAL INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	23

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



TR\_COMA  
20Px0,75 mm²  
/15.5  
/15a.5  
/15b.3

9U4  
/9.4

9U5  
/9.4

9U6  
/9.5

9U7  
/9.6

6M9  
/6.9

COMPRESSOR A  
INLET PRESSURE  
PIT-10153

COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10154

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10157

COMPRESSOR A  
INLET TEMPERATURE  
TIT-10151

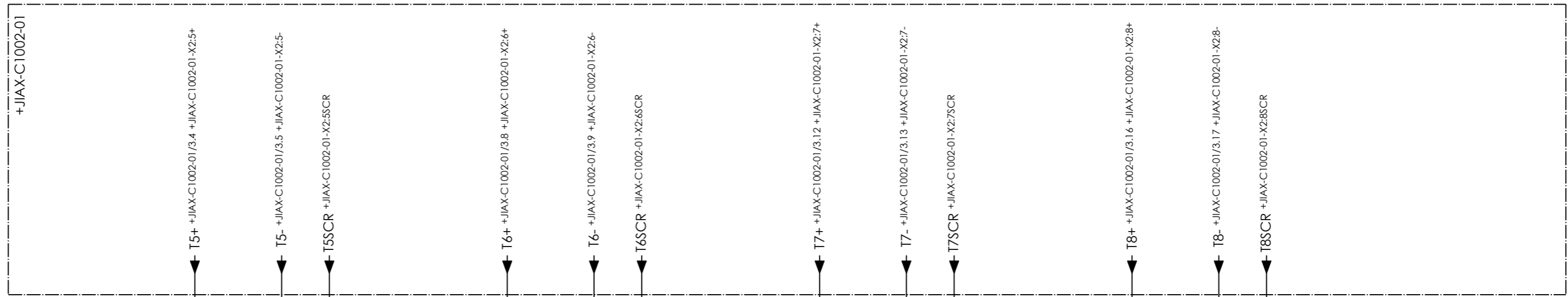


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	24

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



TR\_COMA  
/14.5

9U8  
/9.7

9U9  
/9.8

9U10  
/9.8

9U11  
/9.9

6M9  
/6.9

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10152

COMPRESSOR A  
COOLING WATER OUTLET FLOW  
FIT-10151

COMPRESSOR A  
VIBRATION LEVEL  
VT-10001

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10156

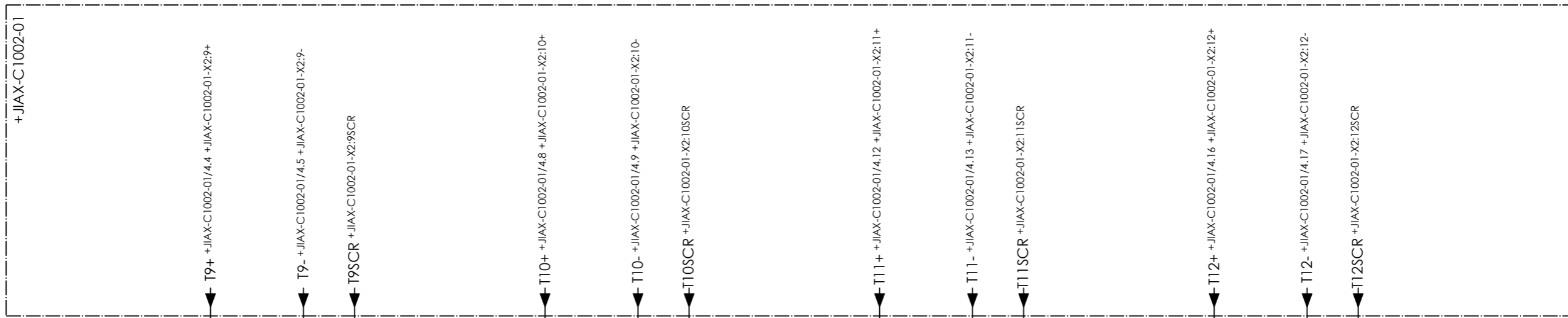
VT-10151



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	25	



TR\_COMA /14.5

9U12 /9.10

9U12.1 /9.11

9U13 /9.12

9U14 /9.12

9U15 /9.13

6M10 /6.10

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10158

COMPRESSOR A  
OUTLET PRESSURE  
PIT-10159

COMPRESSOR A  
1ST STAGE TEMPERATURE  
TIT-10153

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10154

PIT-10158+ / 34.3  
PIT-10158- / 34.3

26a.9 AI.10+  
26a.10 AI.10-

26a.12 AI.11+  
26a.13 AI.11-

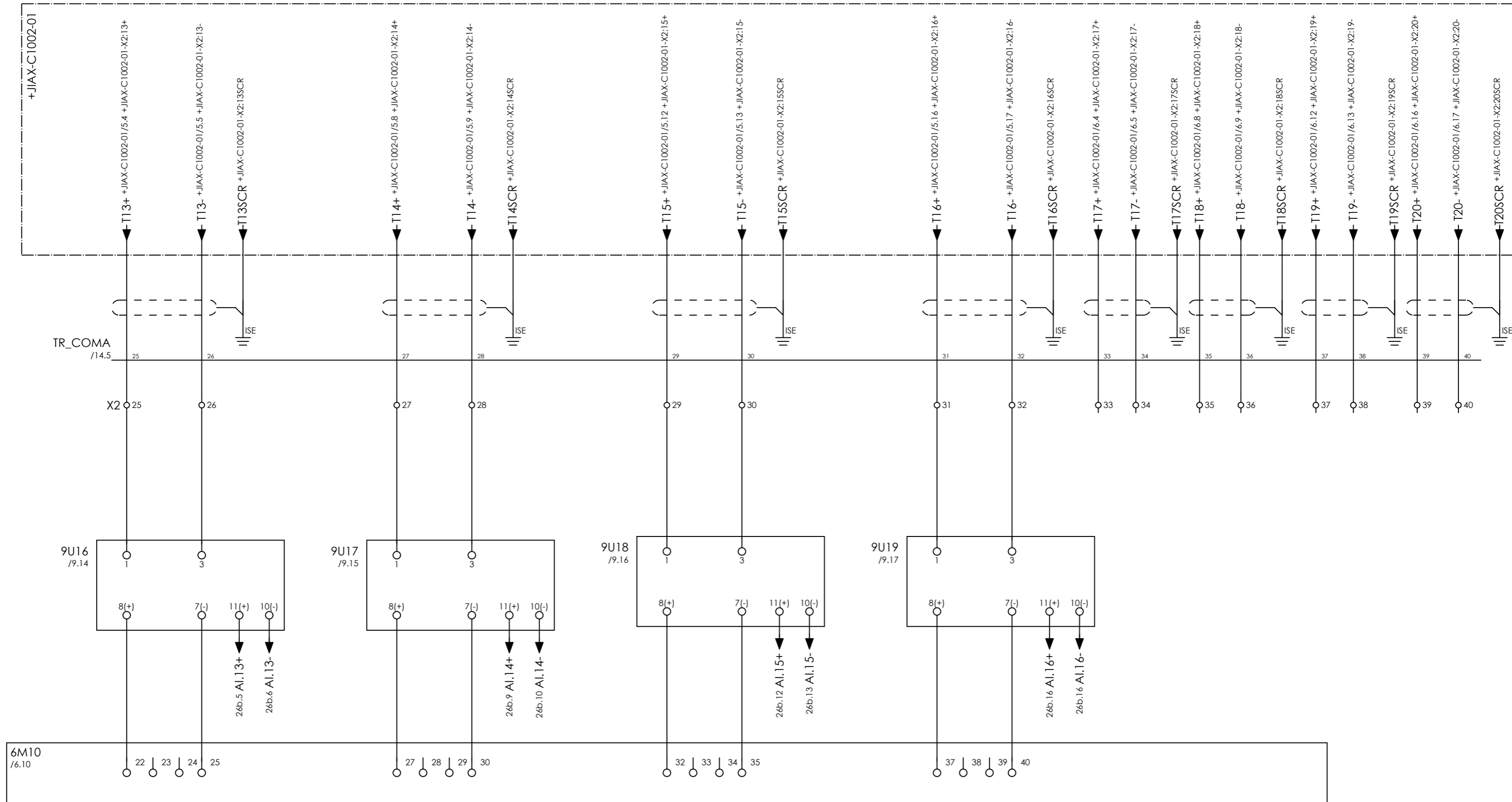
26a.16 AI.12+  
26a.16 AI.12-



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	26	



COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155

SPARE

SPARE

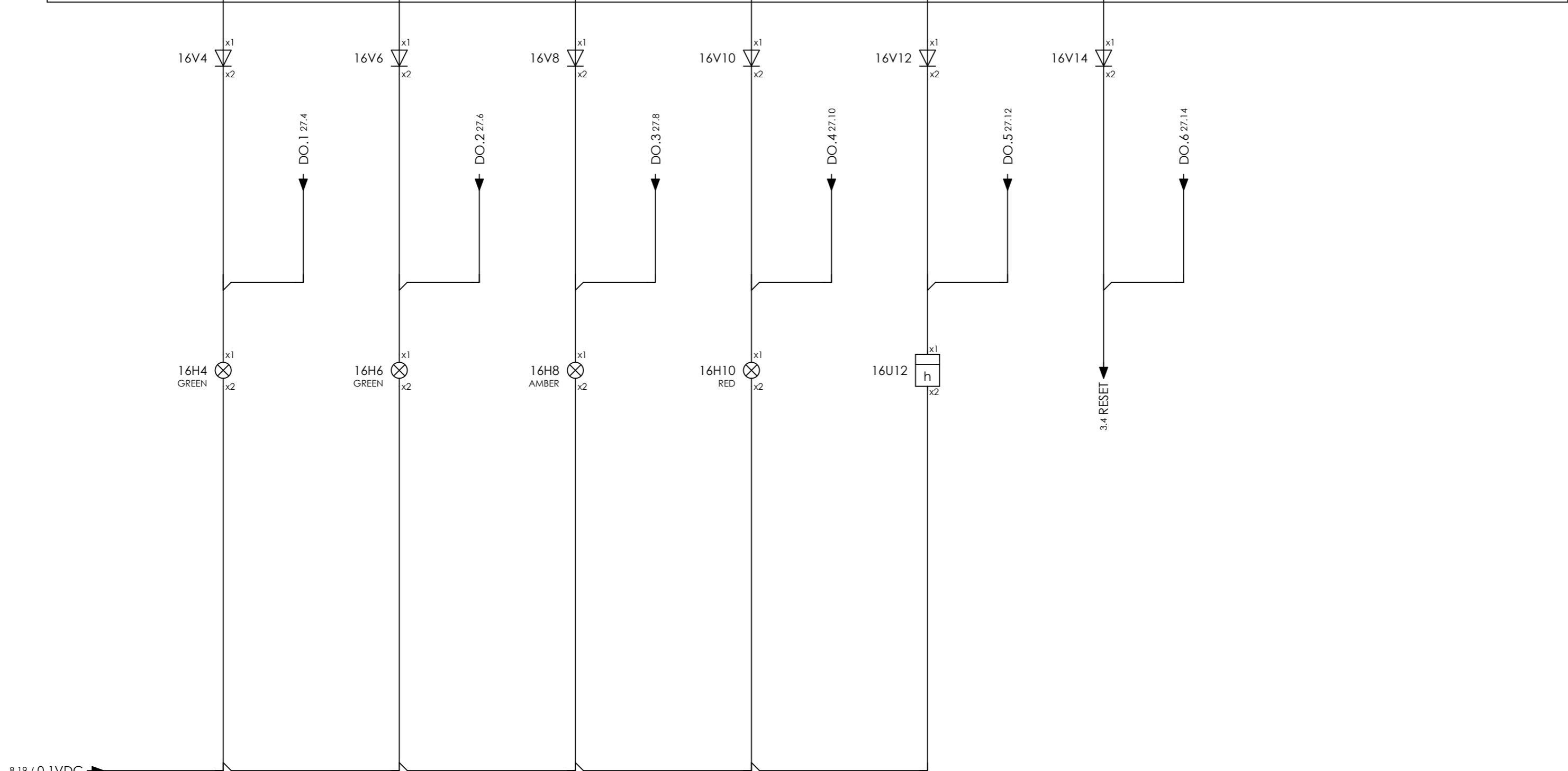
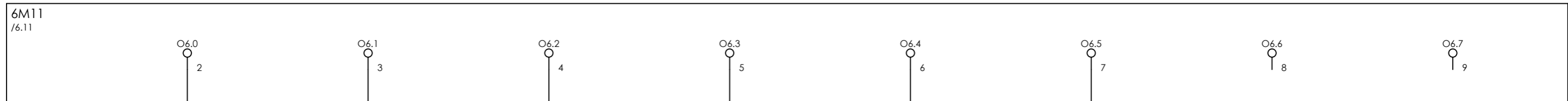
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	27	



COMPRESSOR A OPERATIONAL XL-10156    COMPRESSOR A RUNNING XL-10157    COMPRESSOR A COMMON ALARM XL-10158    COMPRESSOR A COMMON TRIP XL-10159    COMPRESSOR A HOURMETER HM-10151    RESET ESD RELAY    SPARE    SPARE

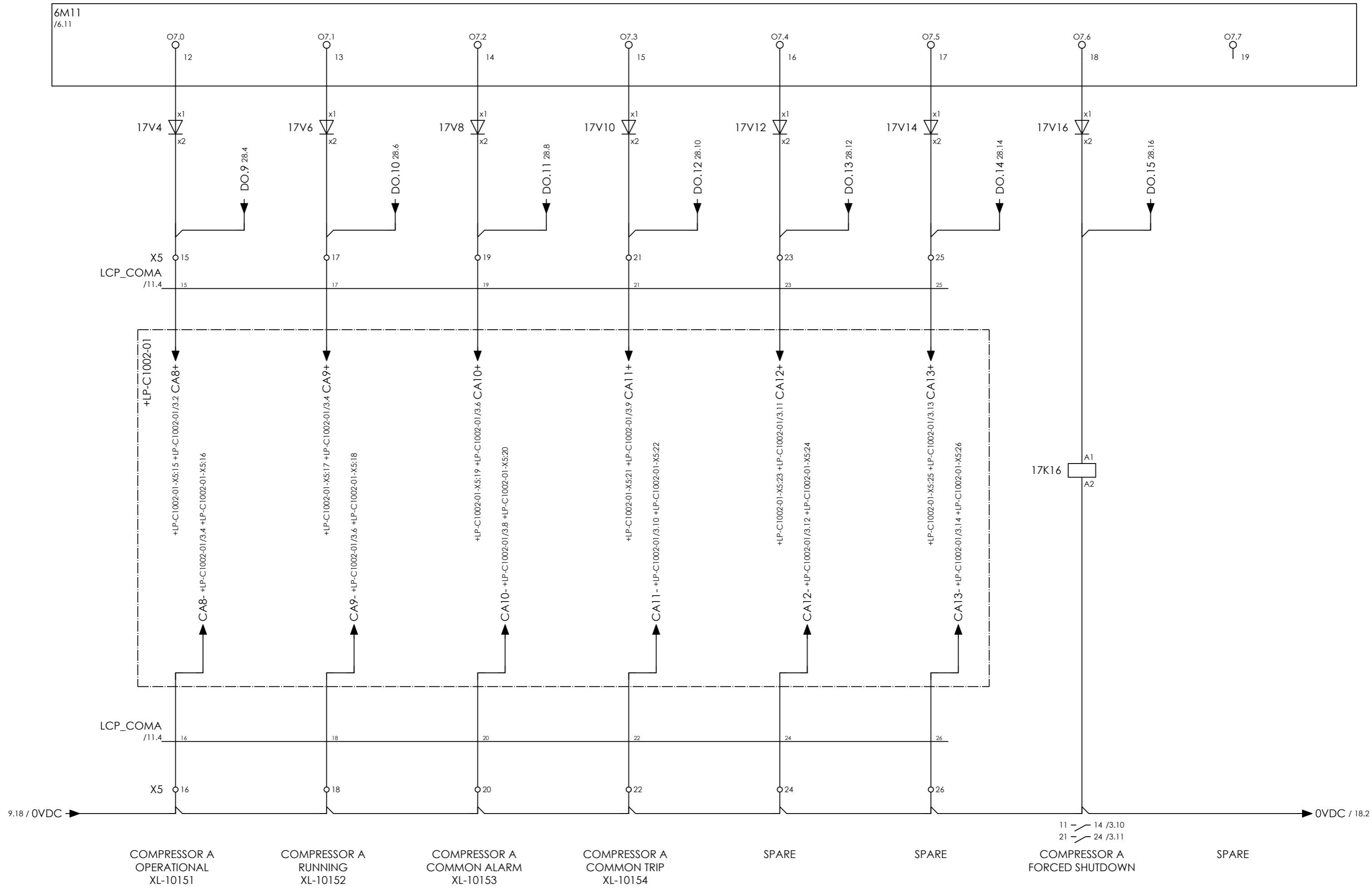


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL OUTPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
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REVISION	02
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+ UCP-C1002-01
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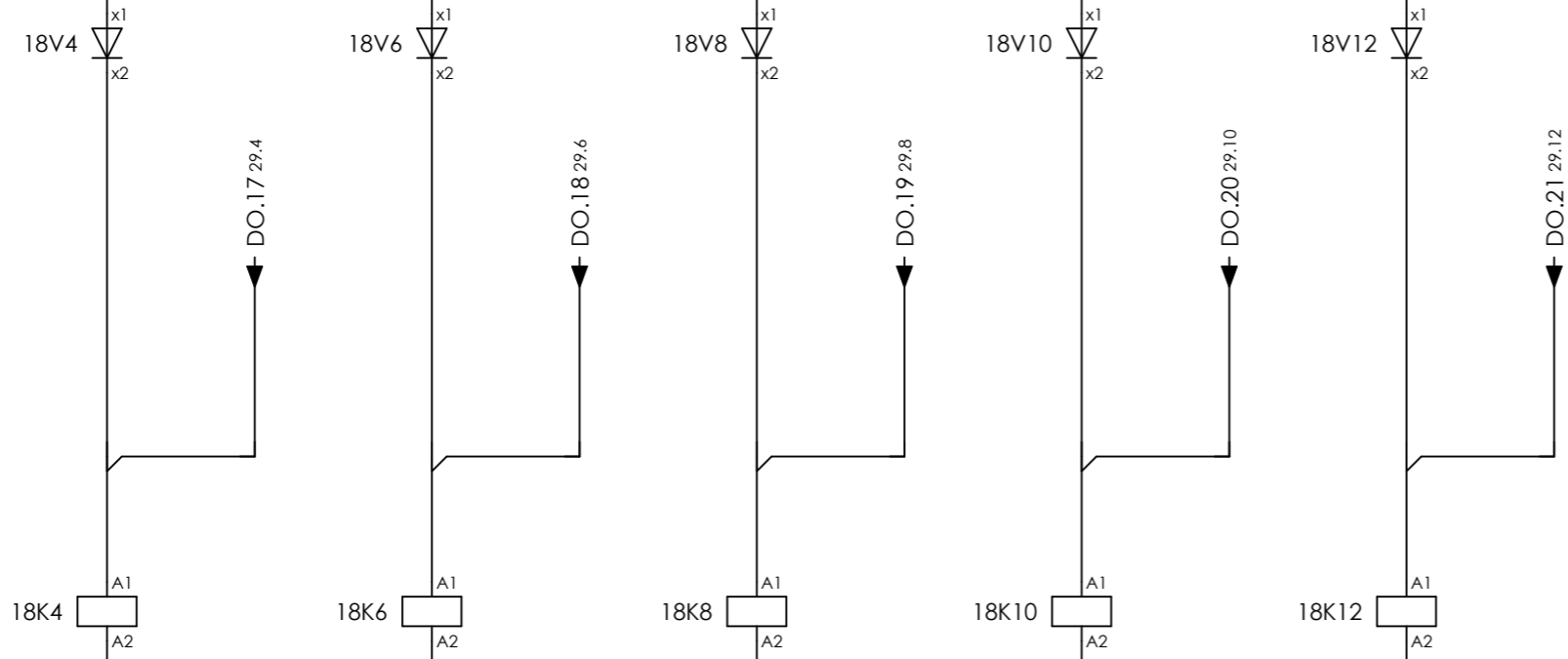


11 - 14 /3.10  
21 - 24 /3.11

COMPRESSOR A OPERATIONAL XL-10151      COMPRESSOR A RUNNING XL-10152      COMPRESSOR A COMMON ALARM XL-10153      COMPRESSOR A COMMON TRIP XL-10154      SPARE      SPARE      COMPRESSOR A FORCED SHUTDOWN      SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	DIGITAL OUTPUTS I		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	29	



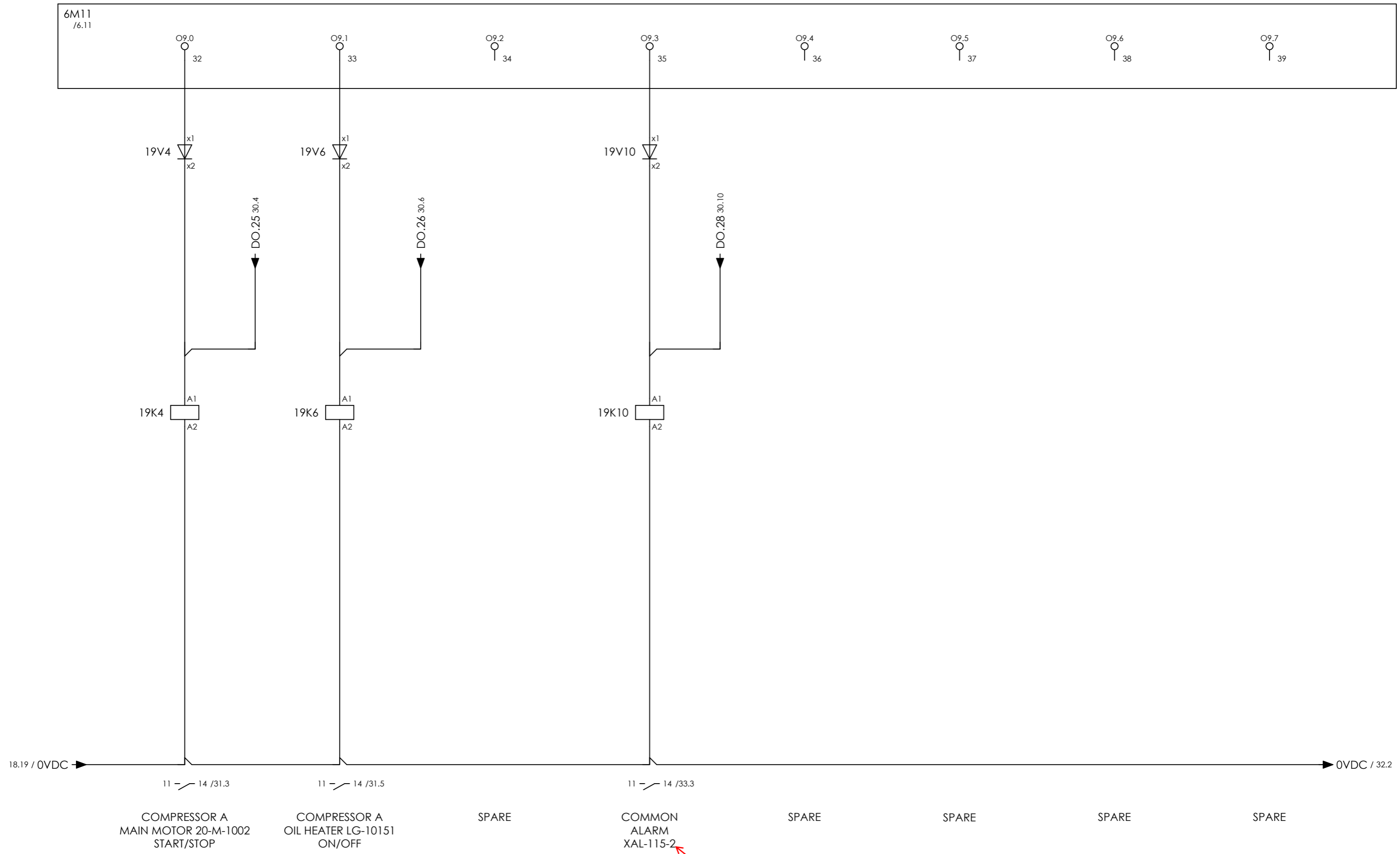
COMPRESSOR A SOLENOID VALVE XY-001A      COMPRESSOR A SOLENOID VALVE XY-002A      SPARE      SPARE      PID CONTROL ACTIVE      SPARE      SPARE      SPARE

Tag to be modified



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	DIGITAL OUTPUTS I		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	30	

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	30	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL OUTPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

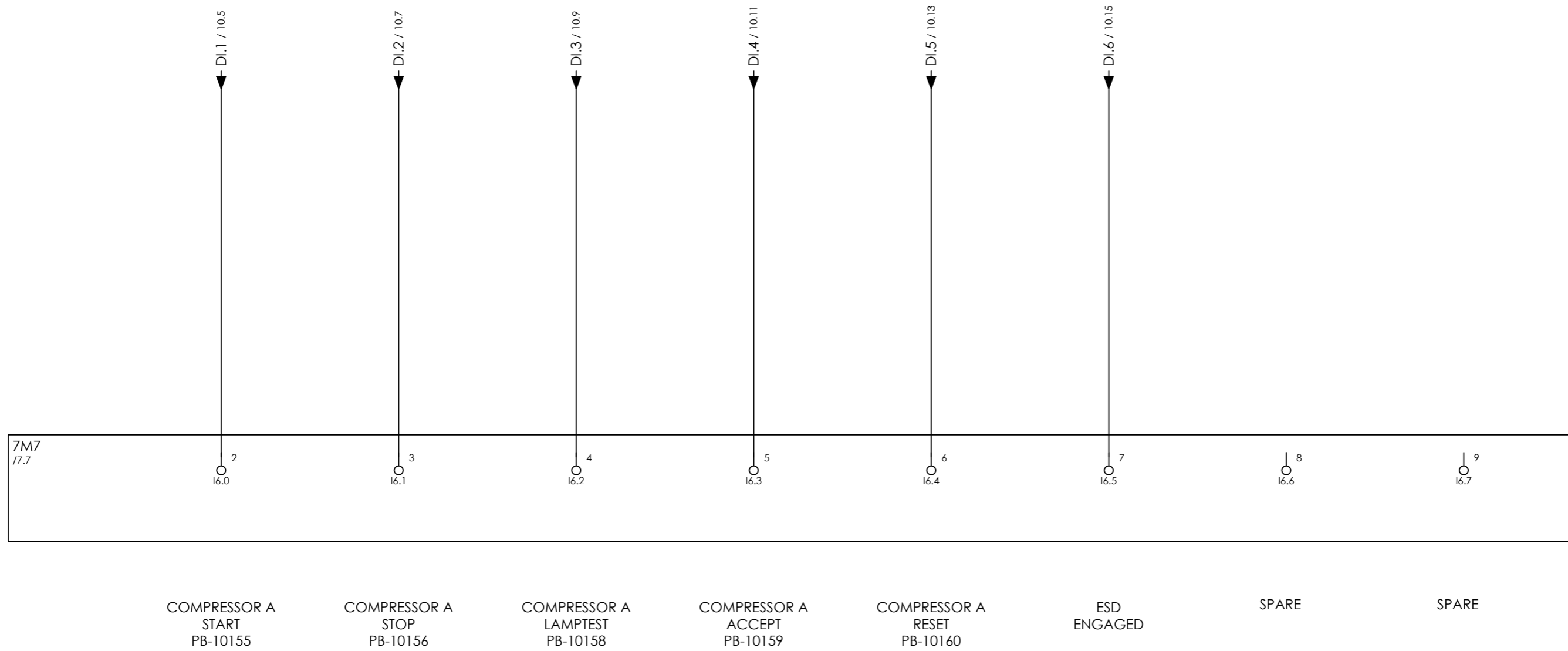
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AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	31

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+ UCP-C1002-01
CURRENT PAGE

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	EQUIPMENT NO.	20-C-1002	EMPTY PAGE		CHECKED BY	RBE	+ UCP-C1002-01
	EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
			CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
			CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	32		



7M7  
17.7

COMPRESSOR A START PB-10155      COMPRESSOR A STOP PB-10156      COMPRESSOR A LAMPTTEST PB-10158      COMPRESSOR A ACCEPT PB-10159      COMPRESSOR A RESET PB-10160      ESD ENGAGED      SPARE      SPARE

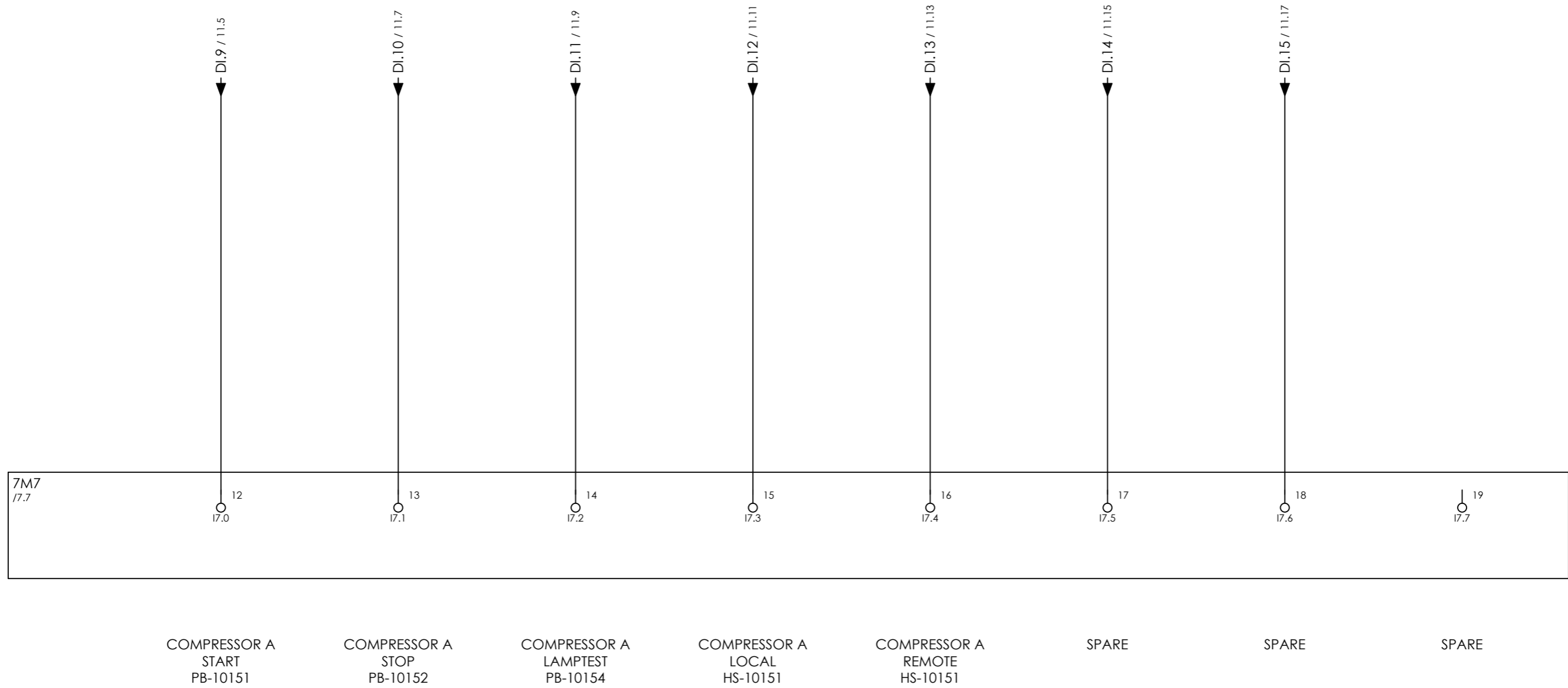


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
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REVISION	02
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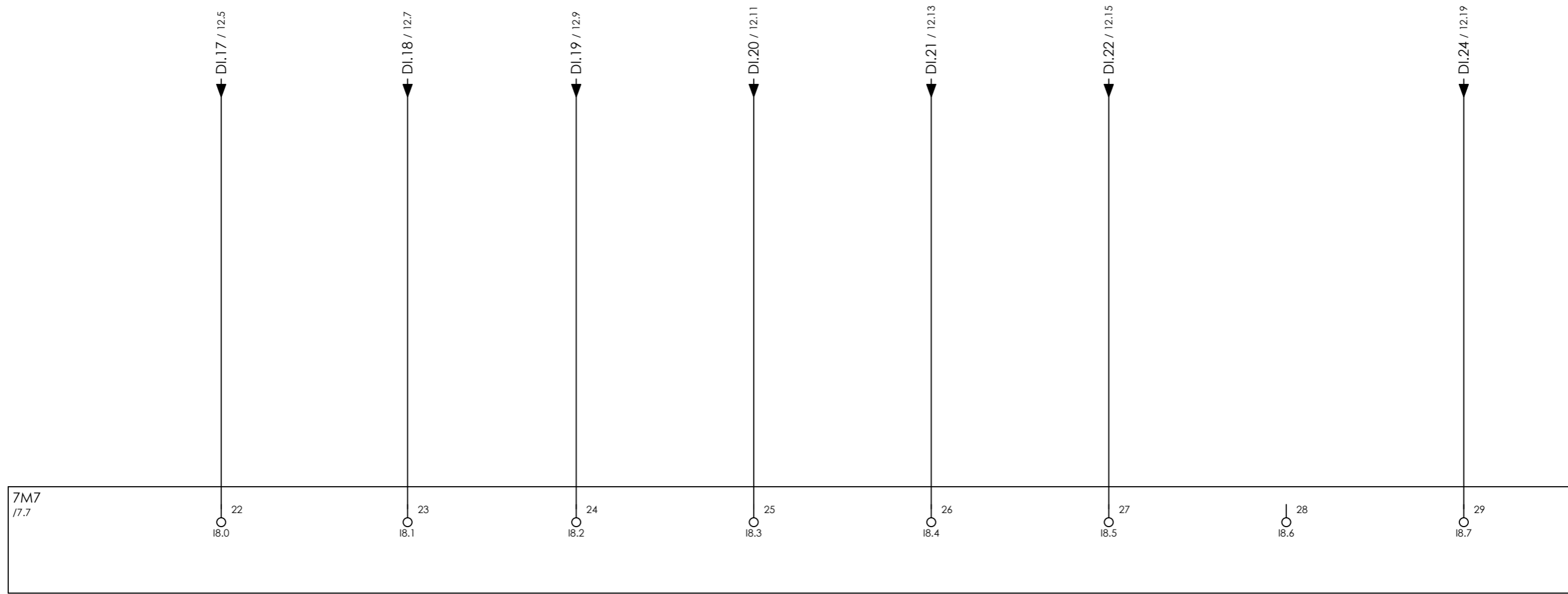


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	34

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
RUNNING

COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
FAULT

COMPRESSOR A  
OIL HEATER LG-10151  
ON

COMPRESSOR A  
OIL HEATER LG-10151  
FAULT

SPARE

SPARE

SPARE

TIME  
SYNCHRONIZATION  
XCS-115

XCS-108

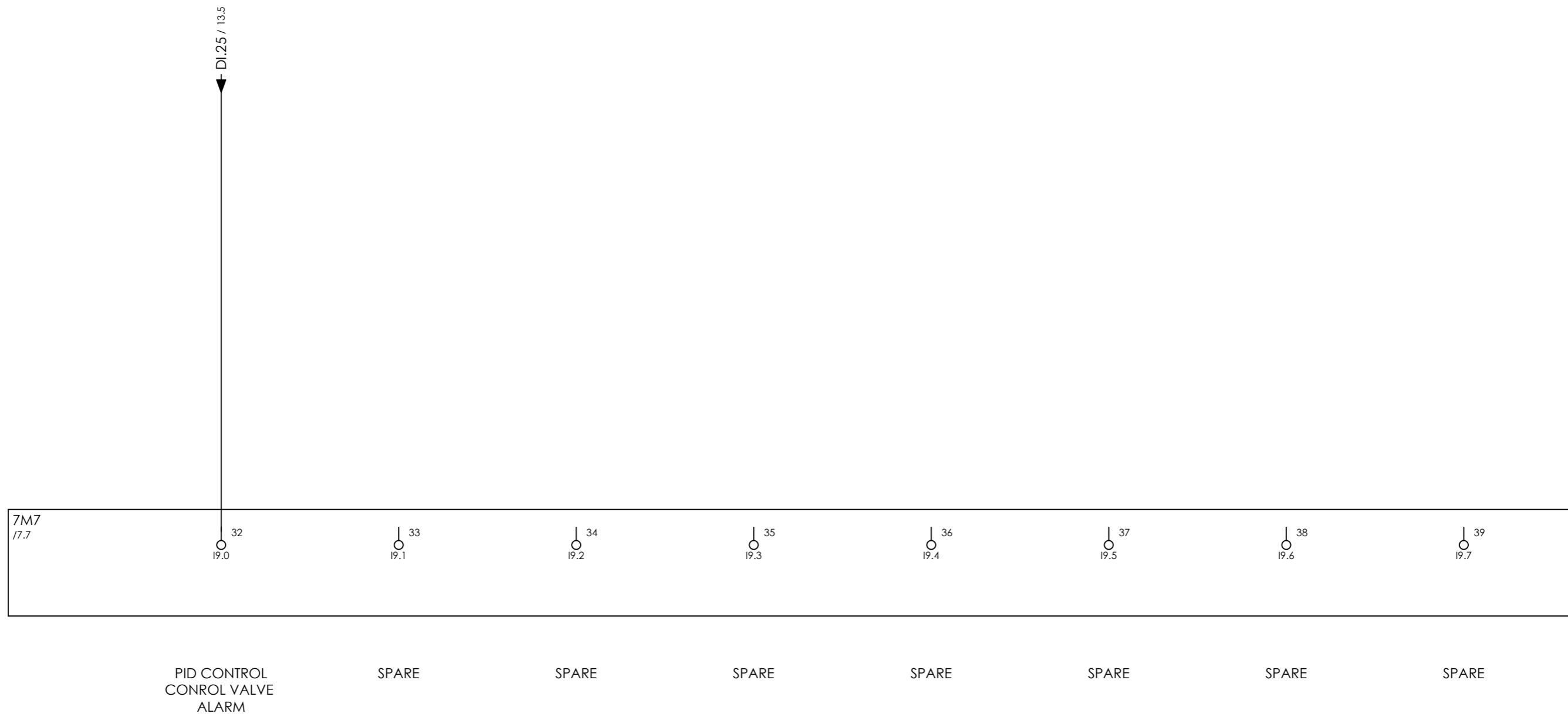


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT DIGITAL INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
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REVISION	02
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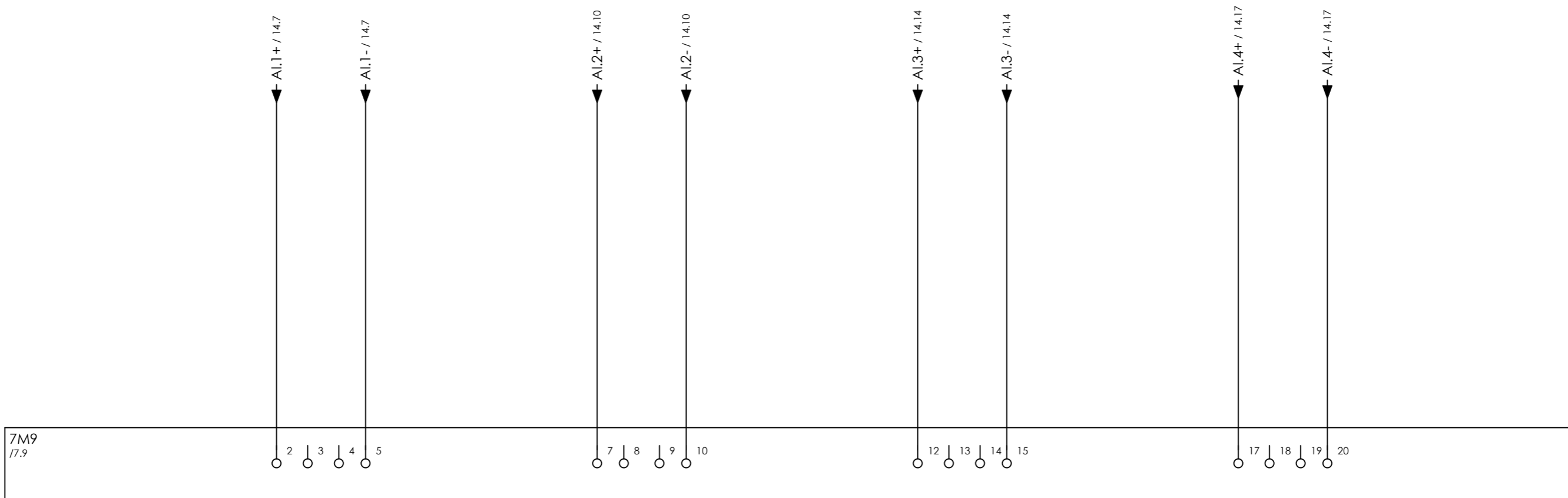


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	36

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7M9  
17.9



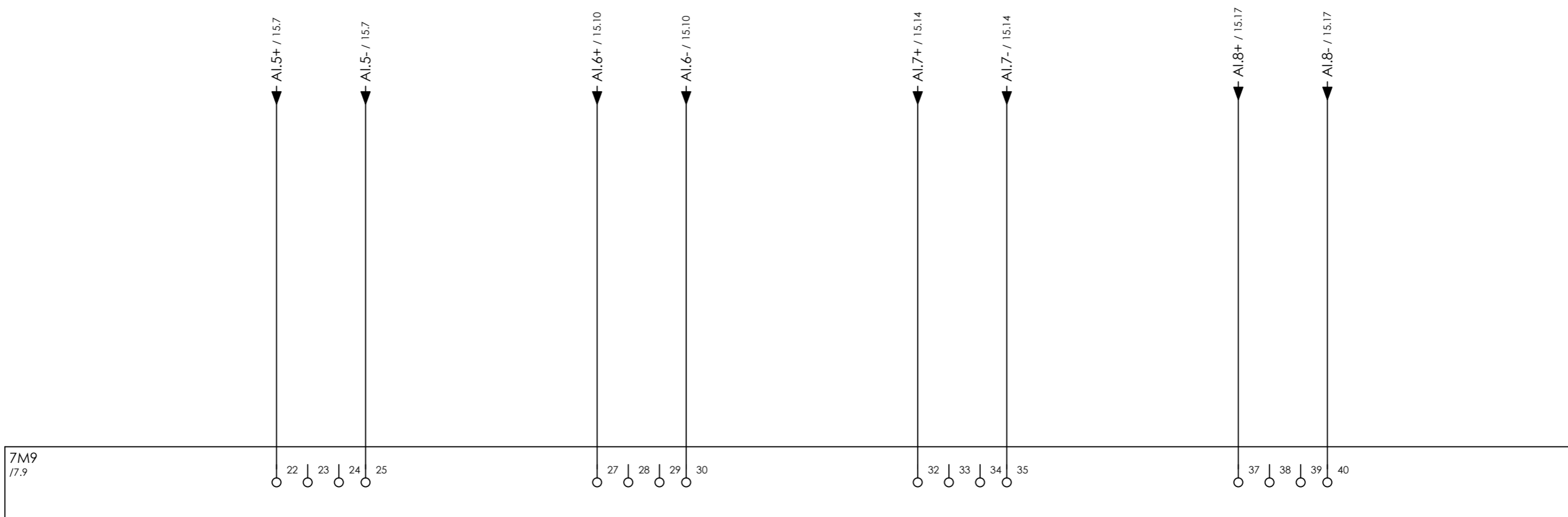
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	37

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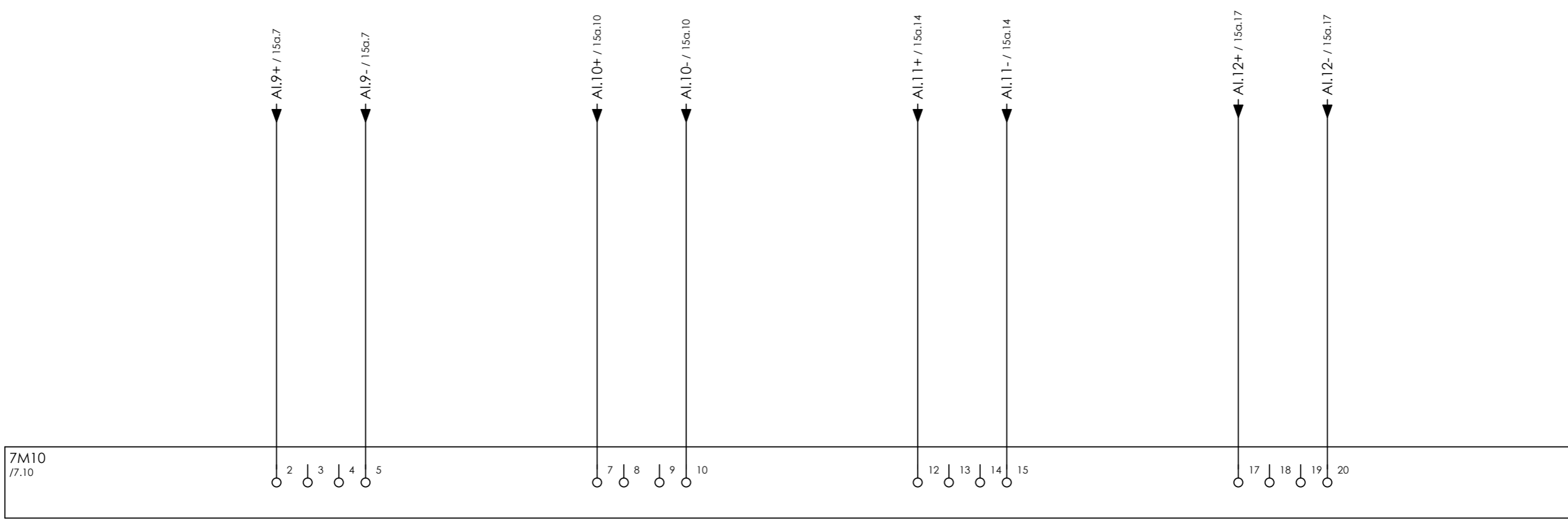


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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	
EQUIPMENT NO.	20-C-1002	ANALOG INPUTS II	
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)		
CLIENT REF.	Bushehr MEG Plant Project		
AIRPACK REF.	17811-05A		

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
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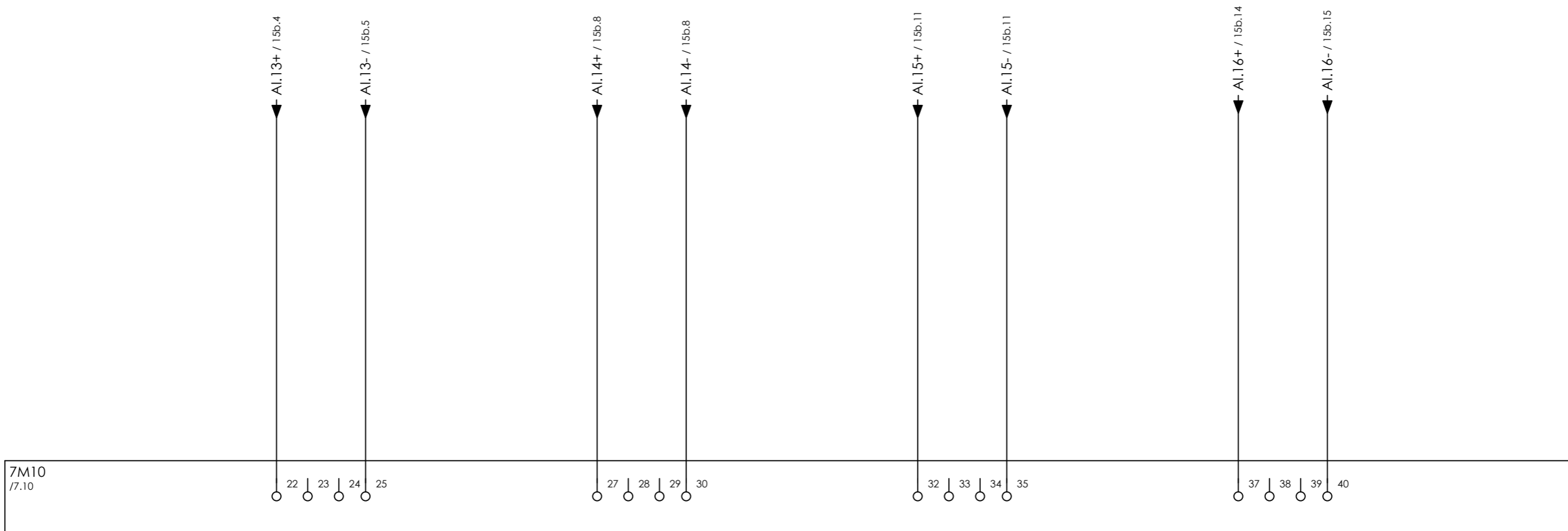


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	39

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



7M10  
/7.10



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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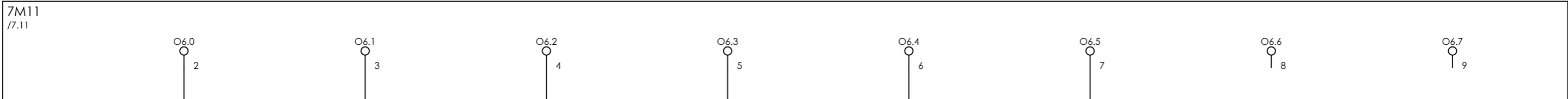
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ADAPTED TO P&ID REVISION	02

CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021

AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	40

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+ UCP-C1002-01
CURRENT PAGE



27V4

27V6

27V8

27V10

27V12

27V14

16.5 / DO.1

16.7 / DO.2

16.9 / DO.3

16.11 / DO.4

16.13 / DO.5

16.15 / DO.6

COMPRESSOR A  
OPERATIONAL  
XL-10156

COMPRESSOR A  
RUNNING  
XL-10157

COMPRESSOR A  
COMMON ALARM  
XL-10158

COMPRESSOR A  
COMMON TRIP  
XL-10159

COMPRESSOR A  
HOURMETER  
HM-10151

RESET  
ESD RELAY

SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL OUTPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	41

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A  
OPERATIONAL  
XL-10151

COMPRESSOR A  
RUNNING  
XL-10152

COMPRESSOR A  
COMMON ALARM  
XL-10153

COMPRESSOR A  
COMMON TRIP  
XL-10154

SPARE

SPARE

COMPRESSOR A  
FORCED SHUTDOWN

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT		DIGITAL OUTPUTS II	
ADAPTED TO P&ID REVISION	02	CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project	AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	42

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



COMPRESSOR A SOLENOID VALVE XY-001A      COMPRESSOR A SOLENOID VALVE XY-002A      SPARE      SPARE      PID CONTROL ACTIVE      SPARE      SPARE      SPARE

Tag to be modify



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	DIGITAL OUTPUTS II	DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	02	CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT REF.	Bushehr MEG Plant Project	AIRPACK DWG NO.	17811-05	29
		AIRPACK REF.	17811-05A	REVISION	02	
				TOTAL PAGE AMOUNT	43	



COMPRESSOR A  
MAIN MOTOR 20-M-1002  
START/STOP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF

SPARE

COMMON  
ALARM  
XAL-115-2

SPARE

SPARE

SPARE

SPARE

XAL-108-2

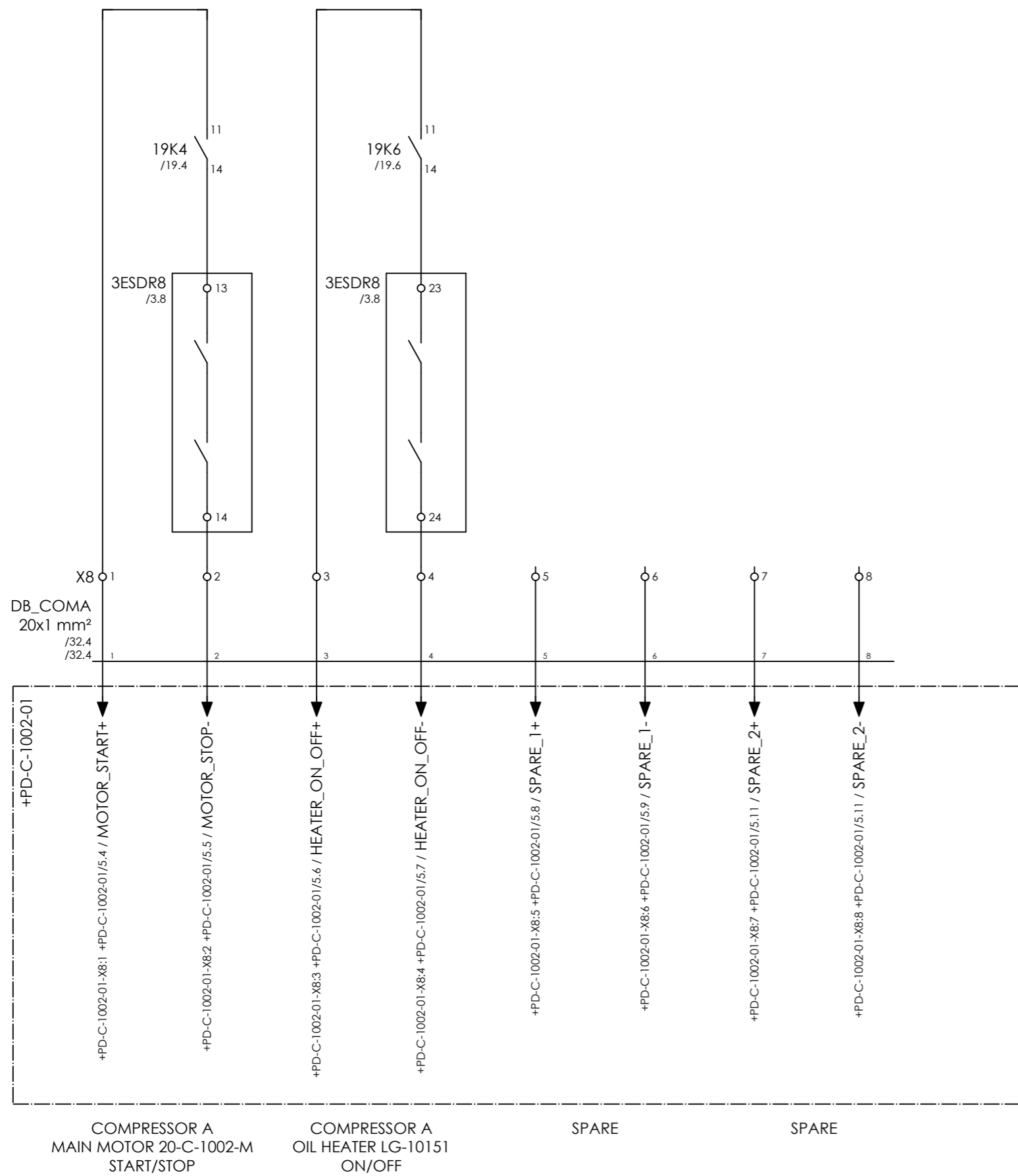


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT DIGITAL OUTPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
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REVISION	02
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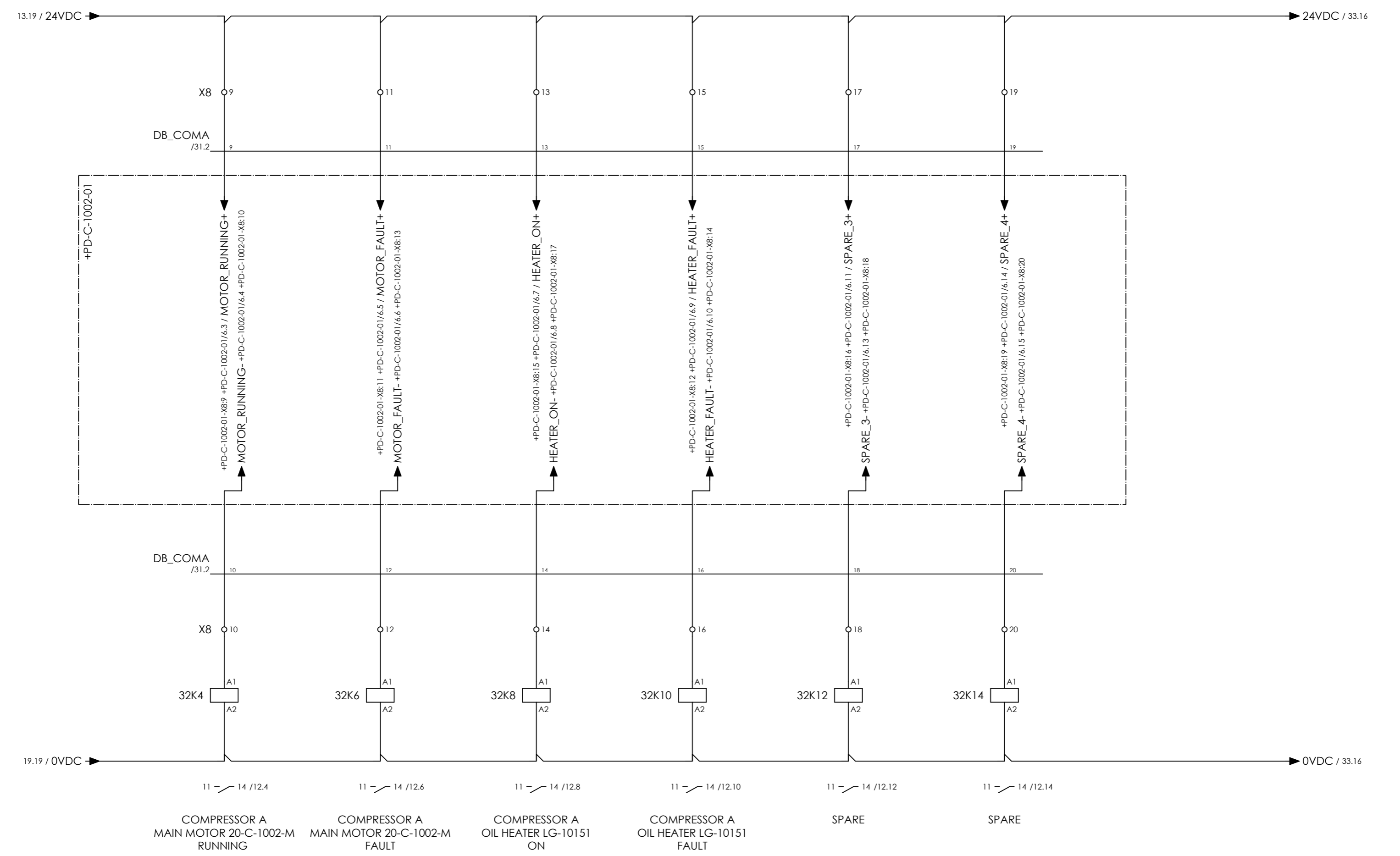


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

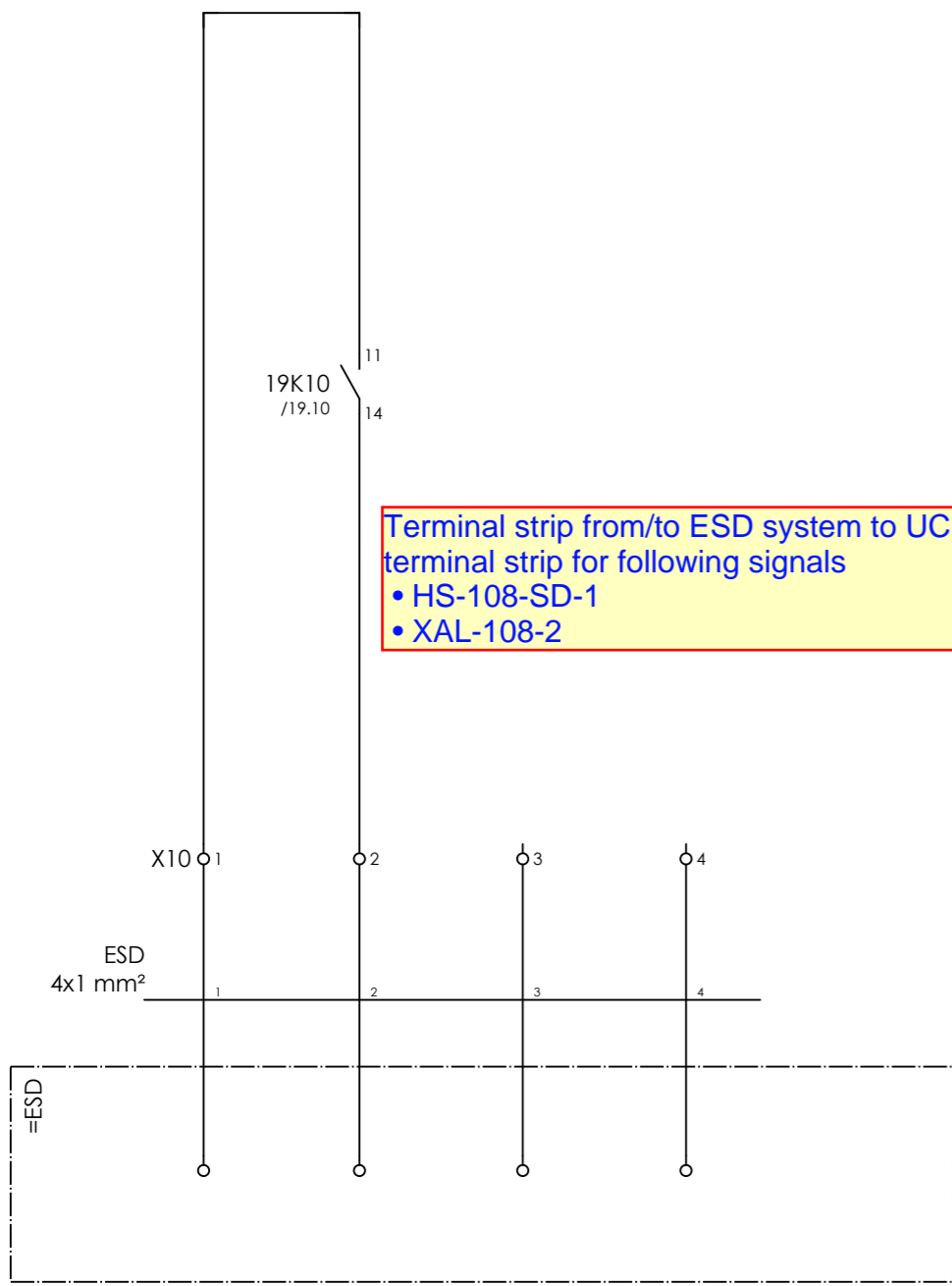
SUBJECT SIGNALS TO DISTRIBUTION BOARD	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	45

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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	SIGNALS FROM DISTRIBUTION BOARD		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
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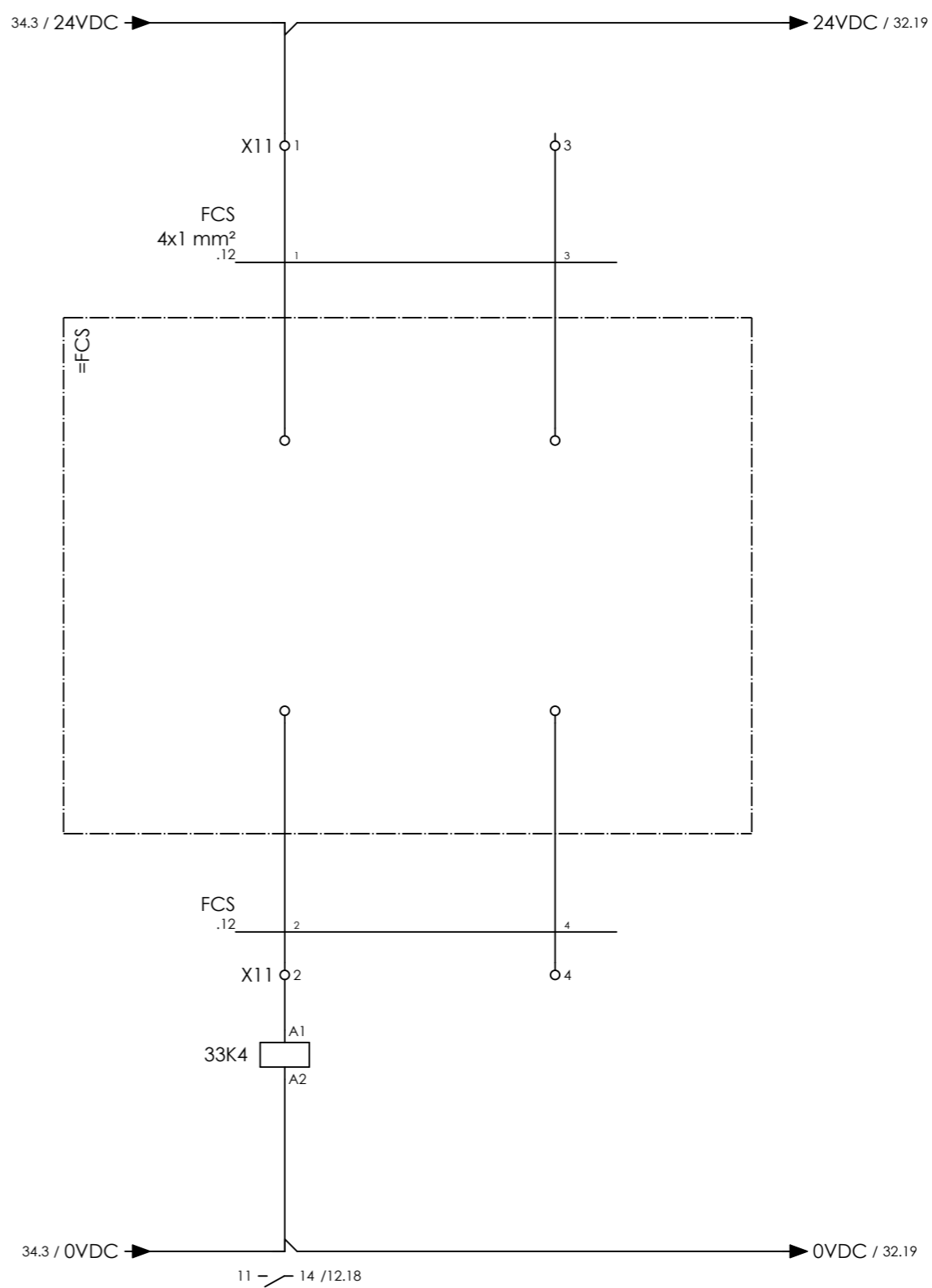


Terminal strip from/to ESD system to UCP shall be in one terminal strip for following signals

- HS-108-SD-1
- XAL-108-2

COMMON  
ALARM  
XAL-108-2  
TO CUSTOMER  
ESD

SPARE



TIME  
SYNCHRONIZATION  
XCS-115  
FROM  
CUSTOMER FCS

XCS-108

SPARE

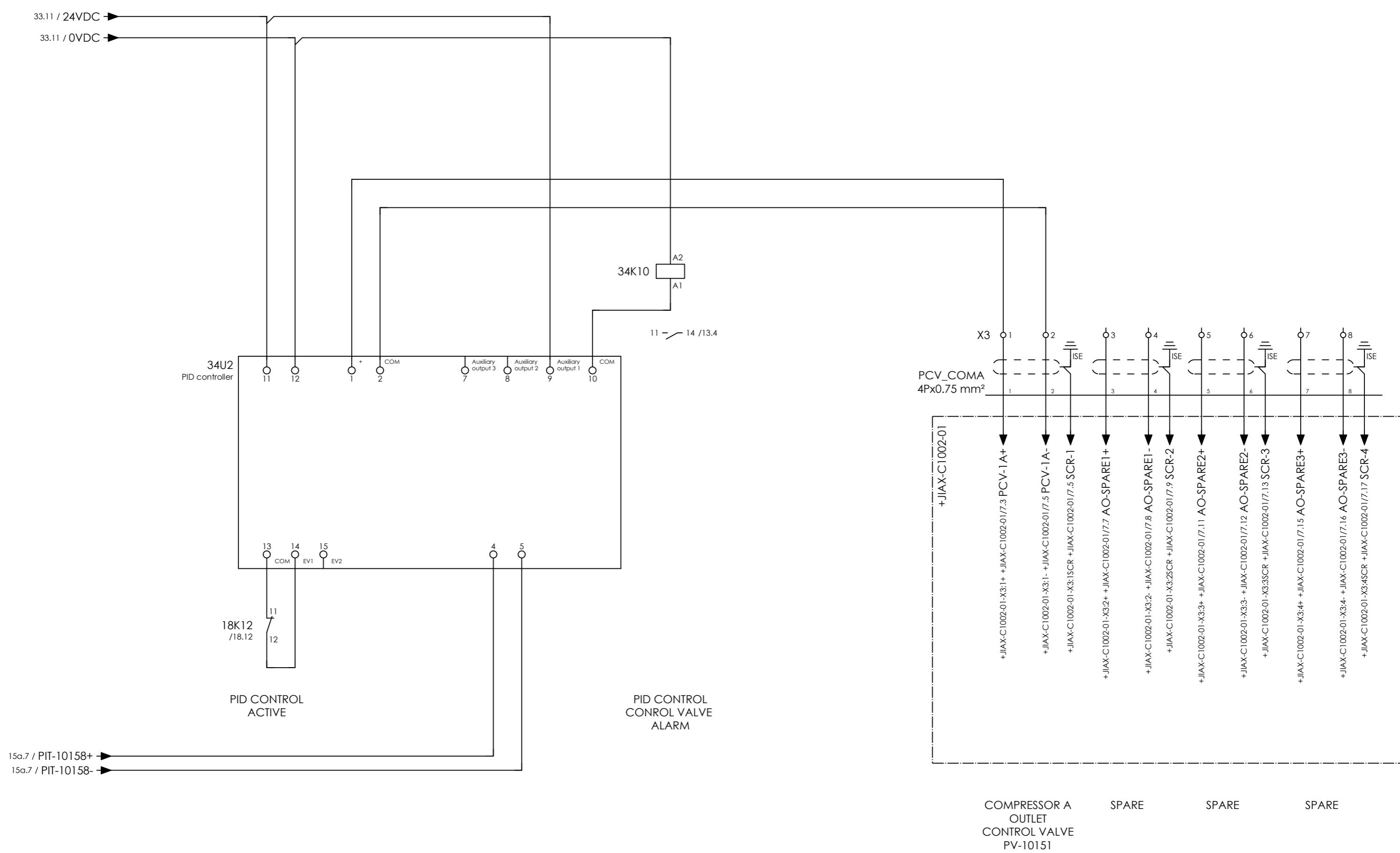


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SIGNALS TO ESD AND FROM FCS	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	47

= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT PID CONTROL		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	02	AIRPACK REF.	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
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		CLIENT REF.		REVISION	02	
		AIRPACK REF.		TOTAL PAGE AMOUNT	48	

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X0 POWER SUPPLY 110VAC / 230VAC FROM CUSTOMER							Cable name	
Terminal	Connection point	Target designation	Jumper	Terminal	Connection point	Target designation	Connection point	Terminal	Connection point	
-PS_02	3x2.5 sqmm	=CUSTOMER-L	.	1		-2S2	2			
-PS_01	3x2.5 sqmm	=CUSTOMER-N	.	2		-2S2	4			
-PS_00	3x2.5 sqmm	=CUSTOMER-PE	.	3			PE			
		=CUSTOMER-L	.	4		-2S4	2			
		=CUSTOMER-N	.	5		-2S4	4			
		=CUSTOMER-PE	.	6			PE			
		=CUSTOMER-L	.	7		-2S6	2			
		=CUSTOMER-N	.	8		-2S6	4			
		=CUSTOMER-PE	.	9			PE			



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X0  
 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 LAST MODIFICATION DATE 07/12/2021  
 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 49

= 20-C-1002  
 + UCP-C1002-01  
 CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X1 SOLENOIDS										Cable name	
		Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point		
-SOL_COMA	5Px2.5 mm²	+JNDX-C1002-01-X1	1+	1+		+JNDX-C1002-01-X1	1+	1+		-20K4	14		
		+JNDX-C1002-01-X1	1-	1-	•	+JNDX-C1002-01-X1	1-	1-	•	-3ESDR2	24		
		+JNDX-C1002-01-X1	2+	2+		+JNDX-C1002-01-X1	2+	2+		-20K6	14		
		+JNDX-C1002-01-X1	2-	2-	•	+JNDX-C1002-01-X1	2-	2-	•				
		+JNDX-C1002-01-X1	3+	3+		+JNDX-C1002-01-X1	3+	3+		-20K8	14		
		+JNDX-C1002-01-X1	3-	3-	•	+JNDX-C1002-01-X1	3-	3-	•				
		+JNDX-C1002-01-X1	4+	4+		+JNDX-C1002-01-X1	4+	4+		-20K10	14		
		+JNDX-C1002-01-X1	4-	4-	•	+JNDX-C1002-01-X1	4-	4-	•				
		+JNDX-C1002-01-X1	5+	5+		+JNDX-C1002-01-X1	5+	5+					
		+JNDX-C1002-01-X1	5-	5-		+JNDX-C1002-01-X1	5-	5-					



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+UCP-C1002-01-X1
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	02
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	50	

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X2 ANALOGUE INPUTS										Cable name		
TR_COMA	20Px0.75 mm <sup>2</sup>	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point			
1		+JIAX-C1002-01-X2	1	1	.	-9U4	1	1	.	-9U4	1+			
2		+JIAX-C1002-01-X2	2	2	.	-9U4	2	2	.	-9U4	3			
3		+JIAX-C1002-01-X2	3	3	.	-9U5	3	3	.	-9U5	1+			
4		+JIAX-C1002-01-X2	4	4	.	-9U5	4	4	.	-9U5	3			
5		+JIAX-C1002-01-X2	5	5	.	-9U6	5	5	.	-9U6	1+			
6		+JIAX-C1002-01-X2	6	6	.	-9U6	6	6	.	-9U6	3			
7		+JIAX-C1002-01-X2	7	7	.	-9U7	7	7	.	-9U7	1+			
8		+JIAX-C1002-01-X2	8	8	.	-9U7	8	8	.	-9U7	3			
9		+JIAX-C1002-01-X2	9	9	.	-9U8	9	9	.	-9U8	1+			
10		+JIAX-C1002-01-X2	10	10	.	-9U8	10	10	.	-9U8	3			
11		+JIAX-C1002-01-X2	11	11	.	-9U9	11	11	.	-9U9	1+			
12		+JIAX-C1002-01-X2	12	12	.	-9U9	12	12	.	-9U9	3			
13		+JIAX-C1002-01-X2	13	13	.	-9U10	13	13	.	-9U10	1+			
14		+JIAX-C1002-01-X2	14	14	.	-9U10	14	14	.	-9U10	3			
15		+JIAX-C1002-01-X2	15	15	.		15	15	.					
16		+JIAX-C1002-01-X2	16	16	.		16	16	.					
17		+JIAX-C1002-01-X2	17	17	.		17	17	.					
18		+JIAX-C1002-01-X2	18	18	.		18	18	.					
19		+JIAX-C1002-01-X2	19	19	.		19	19	.					
20		+JIAX-C1002-01-X2	20	20	.		20	20	.					
21		+JIAX-C1002-01-X2	21	21	.		21	21	.					
22		+JIAX-C1002-01-X2	22	22	.		22	22	.					
23		+JIAX-C1002-01-X2	23	23	.		23	23	.					
24		+JIAX-C1002-01-X2	24	24	.		24	24	.					
25		+JIAX-C1002-01-X2	25	25	.		25	25	.					
26		+JIAX-C1002-01-X2	26	26	.		26	26	.					
27		+JIAX-C1002-01-X2	27	27	.		27	27	.					
28		+JIAX-C1002-01-X2	28	28	.		28	28	.					
29		+JIAX-C1002-01-X2	29	29	.		29	29	.					
30		+JIAX-C1002-01-X2	30	30	.		30	30	.					
31		+JIAX-C1002-01-X2	31	31	.		31	31	.					
32		+JIAX-C1002-01-X2	32	32	.		32	32	.					
33		+JIAX-C1002-01-X2	33	33	.		33	33	.					
34		+JIAX-C1002-01-X2	34	34	.		34	34	.					
35		+JIAX-C1002-01-X2	35	35	.		35	35	.					
36		+JIAX-C1002-01-X2	36	36	.		36	36	.					
37		+JIAX-C1002-01-X2	37	37	.		37	37	.					
38		+JIAX-C1002-01-X2	38	38	.		38	38	.					
39		+JIAX-C1002-01-X2	39	39	.		39	39	.					
40		+JIAX-C1002-01-X2	40	40	.		40	40	.					



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+UCP-C1002-01-X2
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	02
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
		CLIENT REF.	Bushehr MEG Plant Project
		AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	51	



# Terminal diagram

Cable name			Strip =20-C-1002+UCP-C1002-01-X4 SERIAL COMMUNICATION MODBUS TCP/IP TO CUSTOMER													Cable name		
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	
-SERA01	4Px23 AWG					1						2						
-SERA00	4Px23 AWG	WH/OR	OR	WH/GN	BU	WH/BU	GN	WH/BN	BN			3						
						4						5						
						5						6						
						6						7						
						7						8						
						8						9						
						9	WH/OR					10	OR					
						10						11	WH/GN					
						11						12	BU					
						12						13	WH/BU					
						13						14	GN					
						14						15	WH/BN					
						15						16	BN					
						16												



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY	htaheh	= 20-C-1002
Terminal diagram =20-C-1002+UCP-C1002-01-X4		CHECKED BY	RBE	+ UCP-C1002-01
ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	53	

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X5 CONNECTION PUSHBUTTONS / LAMPS										Cable name	
Terminal	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Connection point	Terminal	Connection point
-LCP_COMA	26x1 mm <sup>2</sup>												
1	1	+LP-C1002-01-X5	1	1	•	-9V4	1	1	x1				
2	2	+LP-C1002-01-X5	2	2	•	-6M7	2	2	12				
3	3	+LP-C1002-01-X5	3	3	•		3	3					
4	4	+LP-C1002-01-X5	4	4	•	-6M7	4	4	13				
5	5	+LP-C1002-01-X5	5	5	•		5	5					
6	6	+LP-C1002-01-X5	6	6	•	-6M7	6	6	14				
7	7	+LP-C1002-01-X5	7	7	•		7	7					
8	8	+LP-C1002-01-X5	8	8	•	-6M7	8	8	15				
9	9	+LP-C1002-01-X5	9	9	•		9	9					
10	10	+LP-C1002-01-X5	10	10	•	-6M7	10	10	16				
11	11	+LP-C1002-01-X5	11	11	•		11	11					
12	12	+LP-C1002-01-X5	12	12	•	-6M7	12	12	17				
13	13	+LP-C1002-01-X5	13	13	•	-24K4	13	13	11				
14	14	+LP-C1002-01-X5	14	14	•	-6M7	14	14	18				
15	15	+LP-C1002-01-X5	15	15	•	-6M11	15	15	12				
16	16	+LP-C1002-01-X5	16	16	•	-14U8	16	16	15(-)				
17	17	+LP-C1002-01-X5	17	17	•	-6M11	17	17	13				
18	18	+LP-C1002-01-X5	18	18	•		18	18					
19	19	+LP-C1002-01-X5	19	19	•	-6M11	19	19	14				
20	20	+LP-C1002-01-X5	20	20	•		20	20					
21	21	+LP-C1002-01-X5	21	21	•	-6M11	21	21	15				
22	22	+LP-C1002-01-X5	22	22	•		22	22					
23	23	+LP-C1002-01-X5	23	23	•	-6M11	23	23	16				
24	24	+LP-C1002-01-X5	24	24	•		24	24					
25	25	+LP-C1002-01-X5	25	25	•	-6M11	25	25	17				
26	26	+LP-C1002-01-X5	26	26	•	-19K16	26	26	A2				



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X5  
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 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
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 AIRPACK DWG NO. 17811-05  
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 TOTAL PAGE AMOUNT 54

= 20-C-1002  
 + UCP-C1002-01  
 CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X8 SIGNALS TO / FROM DISTRIBUTION BOARD										Cable name	
Terminal	Connection point	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	Target designation	Connection point	Terminal	Connection point
-DB_COMA	20x1 mm²												
1	1	+PD-C-1002-01-X8	1	1	.	-19K4	11	1	1		11		
2	2	+PD-C-1002-01-X8	2	2	.	-3ESDR8	14	2	2		14		
3	3	+PD-C-1002-01-X8	3	3	.	-19U6	14	3	3		14		
4	4	+PD-C-1002-01-X8	4	4	.	-3ESDR8	24	4	4		24		
5	5	+PD-C-1002-01-X8	5	5	.			5	5				
6	6	+PD-C-1002-01-X8	6	6	.			6	6				
7	7	+PD-C-1002-01-X8	7	7	.			7	7				
8	8	+PD-C-1002-01-X8	8	8	.			8	8				
9	11	+PD-C-1002-01-X8	11	9	.	-34K4	9	9	9		9		
10	10	+PD-C-1002-01-X8	10	10	.	-32K4	A1	10	10		A1		
11		+PD-C-1002-01-X8		11	.		11	11	11		11		
12	13	+PD-C-1002-01-X8	13	12	.	-32K6	A1	12	12		A1		
13		+PD-C-1002-01-X8		13	.		15	13	13		15		
14	17	+PD-C-1002-01-X8	17	14	.	-32K8	A1	14	14		A1		
15		+PD-C-1002-01-X8		15	.		12	15	15		12		
16	14	+PD-C-1002-01-X8	14	16	.	-32K10	A1	16	16		A1		
17		+PD-C-1002-01-X8		17	.		16	17	17		16		
18	18	+PD-C-1002-01-X8	18	18	.	-32K12	A1	18	18		A1		
19	1	+PD-C-1002-01-X8	1	19	.	-X11	19	19	19		19		
20	20	+PD-C-1002-01-X8	20	20	.	-32K14	A1	20	20		A1		



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X8  
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 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 55

= 20-C-1002  
 + UCP-C1002-01  
 CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X9 EMERGENCY SHUTDOWN						Cable name	
Code	Area	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Code	Area
-ESD_LCP_A	4x1 mm <sup>2</sup>	+LP-C1002-01-X9	1	1	.	-19K16	14		
-ESD_COM	4x1 mm <sup>2</sup>	+LP-C1002-01-X9	2	2	.	-19K16	24		
		+LP-C1002-01-X9	3	3	.				
		+LP-C1002-01-X9	4	4	.				
			5	5	.				
			6	6	.				
			7	7	.				
			8	8	.				
			PE	9	.		PE		



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X9  
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 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 56

= 20-C-1002  
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 CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X10 SIGNALS TO ESD				Cable name																			
Terminal	Connection point	Jumper	Target designation	Target designation	Connection point																				
1	11	.	-19K10		1																				
2	14	.	-19K10		2																				
3		.			3																				
4		.			4																				



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
EQUIPMENT NO. 20-C-1002  
EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+UCP-C1002-01-X10  
ADAPTED TO P&ID REVISION 02  
CLIENT Bushehr Petrochemical Company (BUPC)  
CLIENT REF. Bushehr MEG Plant Project  
AIRPACK REF. 17811-05A

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AIRPACK DWG NO. 17811-05  
REVISION 02  
TOTAL PAGE AMOUNT 57

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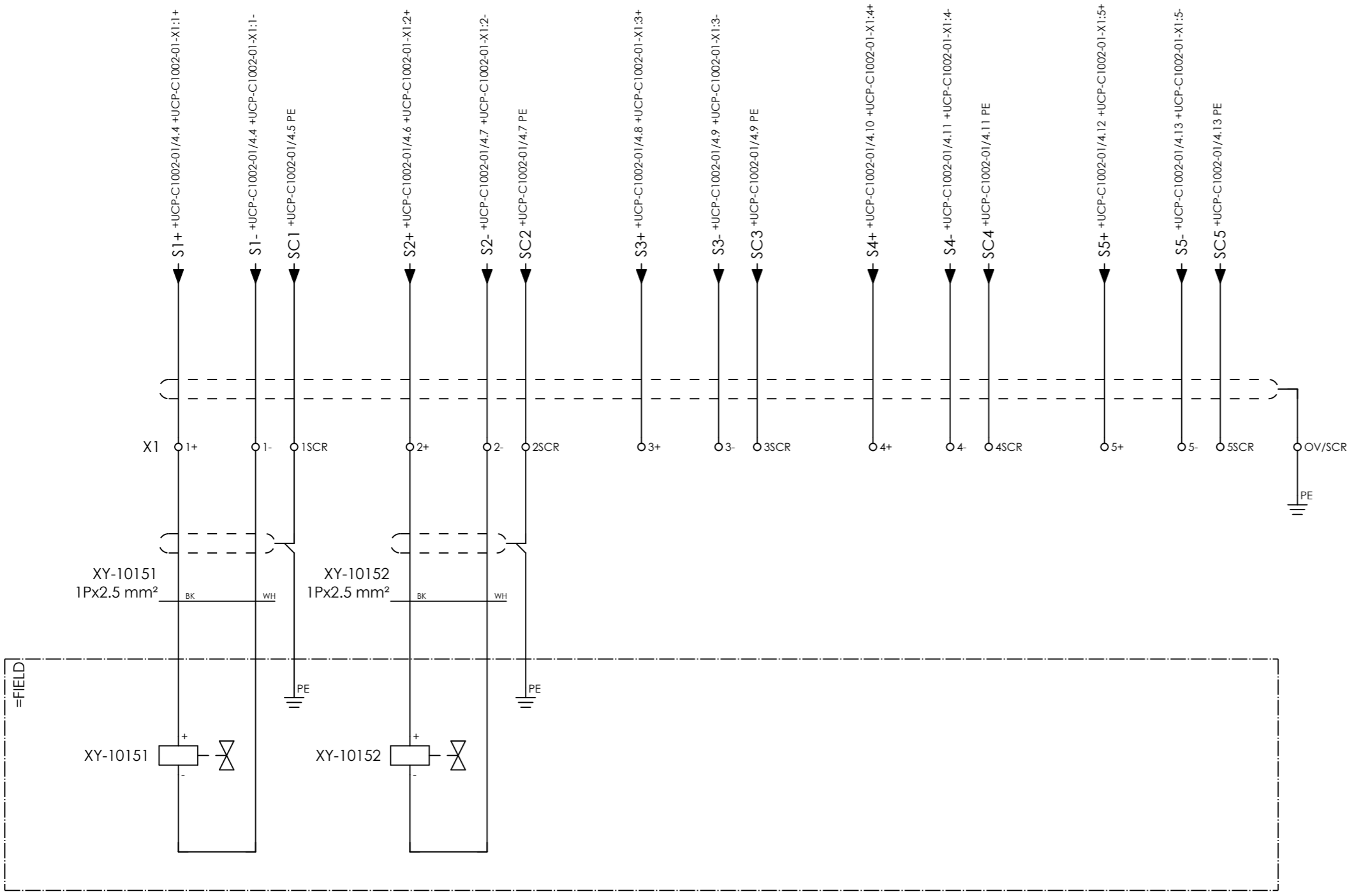
TERMINAL STRIP DEFINITION

JUNCTION BOX  
JNDX-C1002-01

X1 = CONNECTION SOLENOIDS



CLIENT DWG NO.		SUBJECT		DRAWN BY	htaheer	= 20-C-1002
EQUIPMENT NO.	20-C-1002	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ JNDX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION		LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION		
		AIRPACK REF.	17811-05A	PAGE NUMBER	94	



COMPRESSOR A  
INLET  
SOLENOID VALVE  
XY-10151

COMPRESSOR A  
COOLING WATER INLET  
SOLENOID VALVE  
XY-10152

SPARE

SPARE

SPARE



CLIENT DWG NO.  
EQUIPMENT NO.  
EQUIPMENT LOCATION  
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SUBJECT  
CONNECTION SOLENOIDS  
ADAPTED TO P&ID REVISION  
CLIENT  
CLIENT REF.  
AIRPACK REF.

DRAWN BY  
CHECKED BY  
LAST MODIFICATION DATE  
AIRPACK DWG NO.  
REVISION  
PAGE NUMBER

htaher  
RBE  
07/12/2021  
= 20-C-1002  
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# Terminal diagram

Cable name		Strip =20-C-1002+JNDX-C1002-01-X1 CONNECTION SOLENOIDS										Cable name	
Cable name	Cross section	Connection point	Target designation	Jumper	Terminal	Connection point	Target designation	Terminal	Jumper	Target designation	Connection point	Cross section	Cable name
+UCP-SOL_COMA	5Px2.5 mm²	1+	=FIELD-XY-10151	.	1+	+							
		1-	=FIELD-XY-10151	.	1-	-							
					1SCR								
		2+	=FIELD-XY-10152	.	2+	+						BK	
		2-	=FIELD-XY-10152	.	2-	-						WH	
					2SCR								
		3+		.	3+								
		3-		.	3-								
					3SCR								
		4+		.	4+								
		4-		.	4-								
					4SCR								
		5+		.	5+								
		5-		.	5-								
					5SCR								
					OV/SCR								
		PE											



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
 THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!

SUBJECT Terminal diagram =20-C-1002+JNDX-C1002-01-X1  
 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

DRAWN BY htaher  
 CHECKED BY RBE  
 LAST MODIFICATION DATE 07/12/2021  
 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 61

= 20-C-1002  
 + JNDX-C1002-01  
 CURRENT PAGE

# JUNCTION BOX JIAX-C1002-01

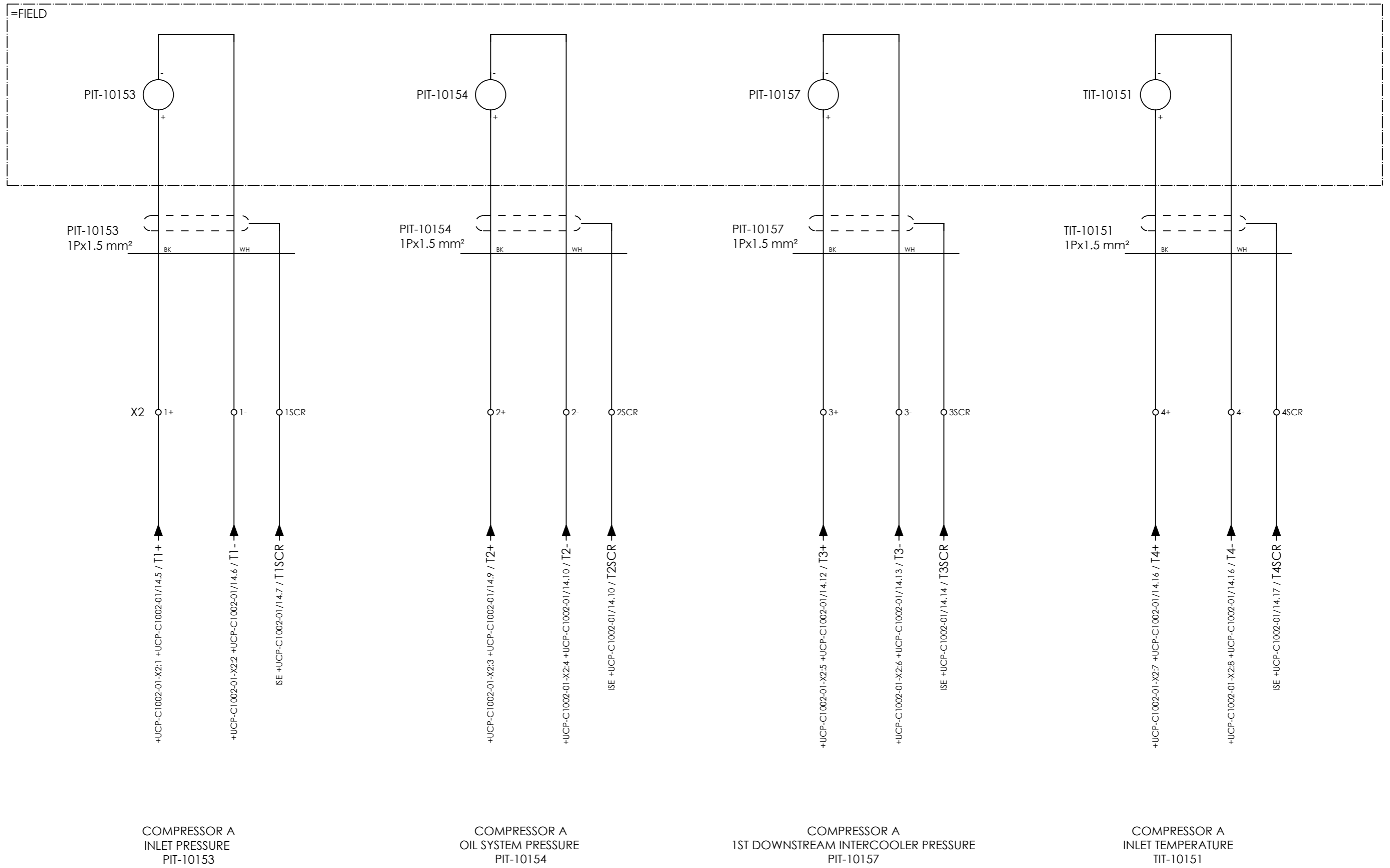
## TERMINAL STRIP DEFINITION

X2 = CONNECTION TRANSMITTERS  
X3 = CONNECTION CONTROL VALVE

Regarding to considering one JB for analogue input/outputs so one terminal strip and one multi cable 20Px0,75 mm<sup>2</sup> will be considered for this JB, accordingly X2 and X3 shall be merged in to one terminal strip.



CLIENT DWG NO.		SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ JIAX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
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		AIRPACK REF.	17811-05A	REVISION		
				PAGE NUMBER	94	

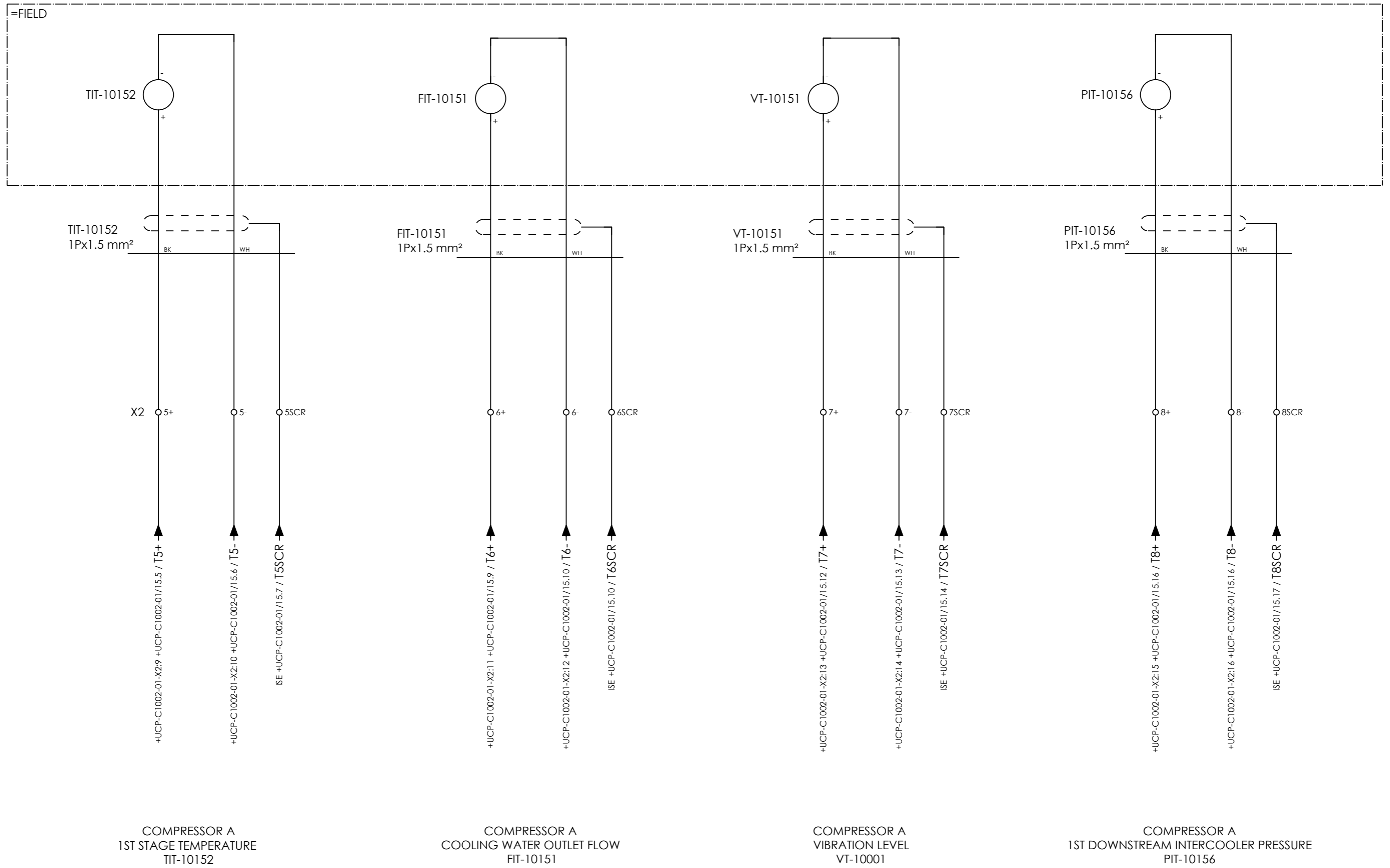


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

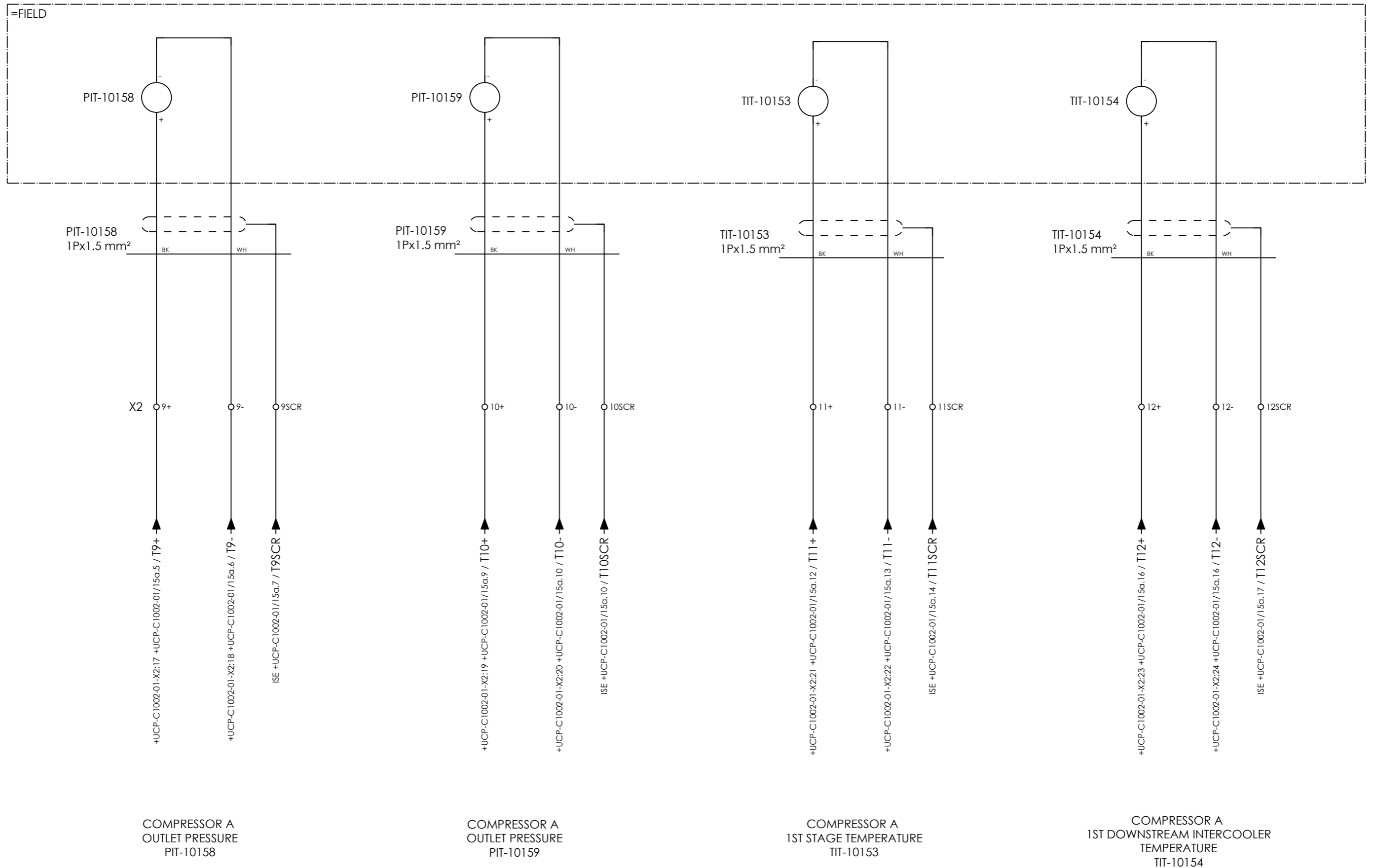
= 20-C-1002
+ JIAX-C1002-01
CURRENT PAGE



CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE	+ JIAX-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.		
REVISION		
PAGE NUMBER	95	

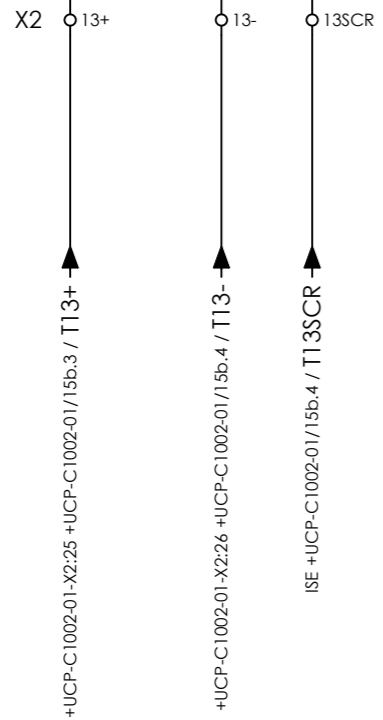
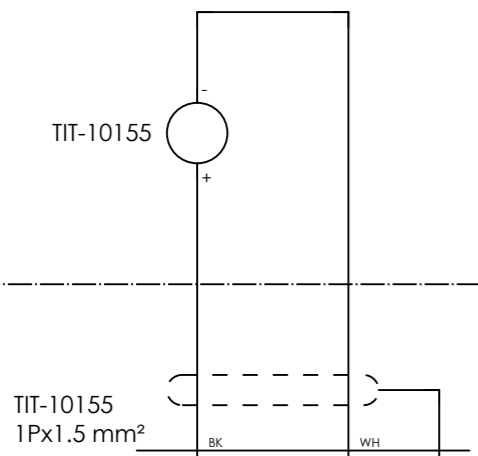


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

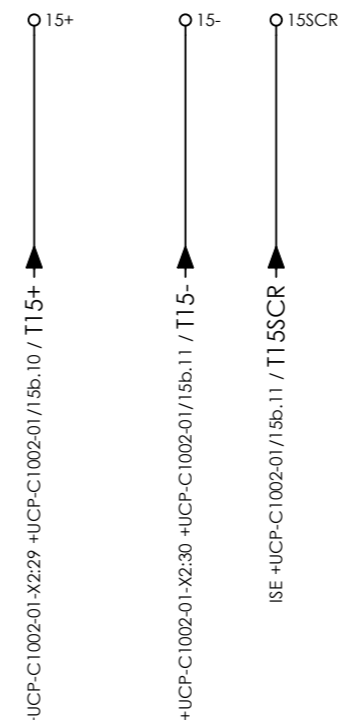
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+ JIAX-C1002-01
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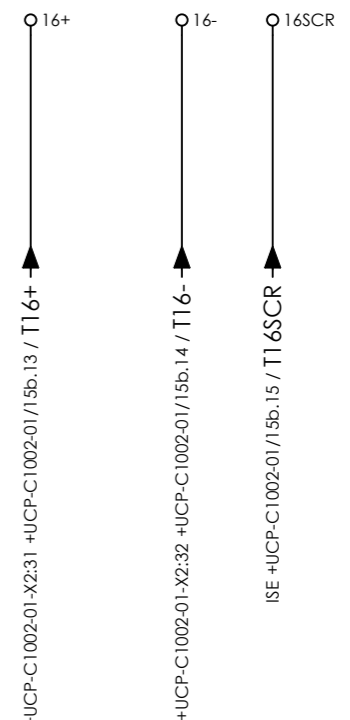
COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155



SPARE



SPARE



SPARE

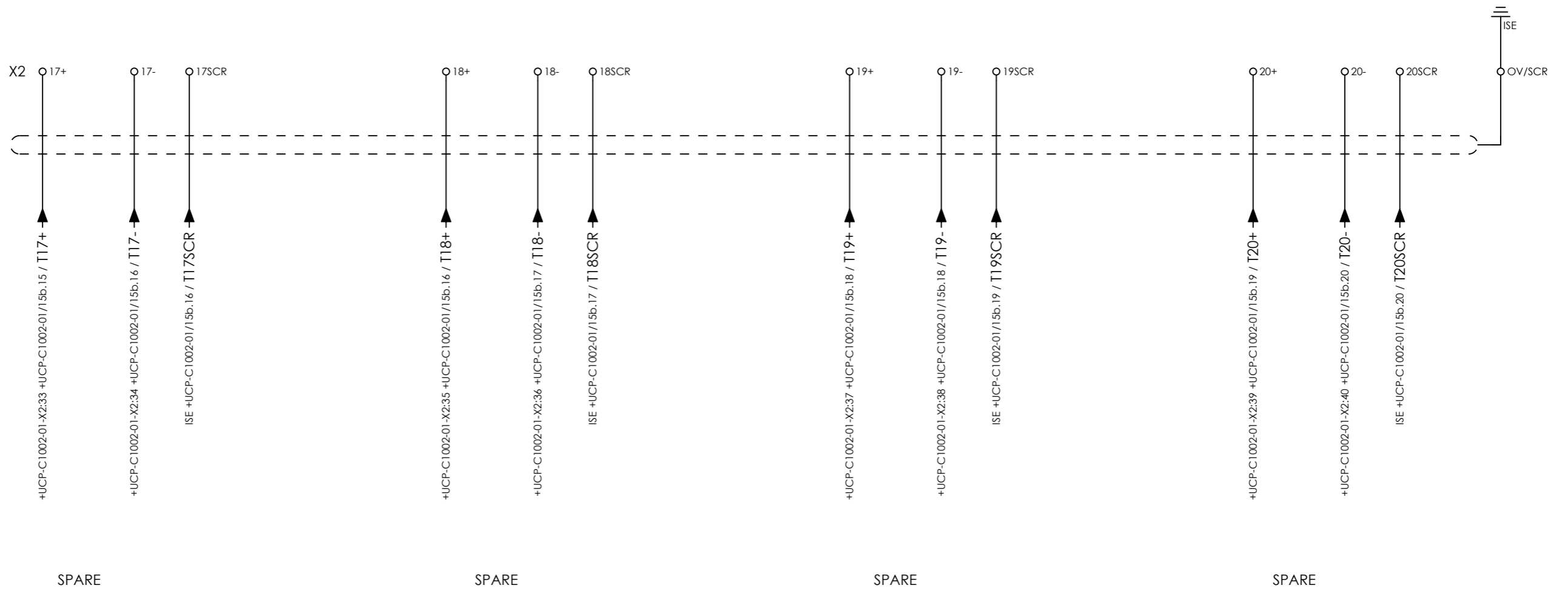


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

= 20-C-1002
+ JIAX-C1002-01
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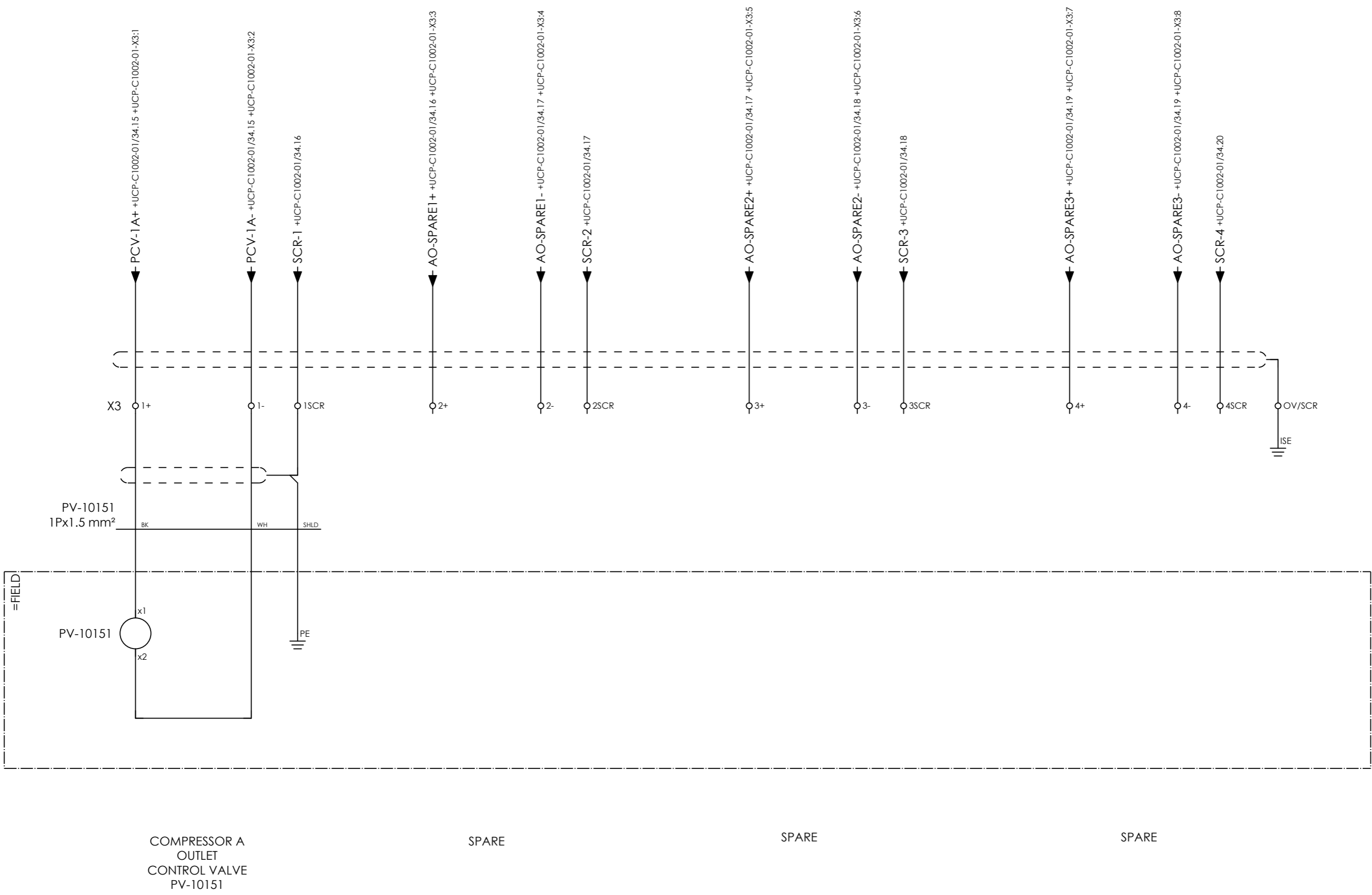
CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	95

= 20-C-1002
+ JIAX-C1002-01
CURRENT PAGE

Please refer to comment on page 64/91



CLIENT DWG NO.		SUBJECT	DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	CONNECTION CONTROL VALVE	CHECKED BY	RBE	+ JIAX-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	AIRPACK DWG NO.		95
		CLIENT REF.	REVISION		
		AIRPACK REF.	PAGE NUMBER	95	

Bushehr Petrochemical Company (BUPC)
Bushehr MEG Plant Project
17811-05A

# Terminal diagram

Cable name		Strip =20-C-1002+JIAX-C1002-01-X2 CONNECTION TRANSMITTERS									
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper
=FIELD-PIT-10153	+	1+	.	+UCP-C1002-01-X2	1	1+	.	+UCP-C1002-01-X2	1	1+	.
=FIELD-PIT-10153	-	1-	.	+UCP-C1002-01-X2	2	1-	.	+UCP-C1002-01-X2	2	1-	.
=FIELD-PIT-10154	+	2+	.	+UCP-C1002-01-X2	3	2+	.	+UCP-C1002-01-X2	3	2+	.
=FIELD-PIT-10154	-	2-	.	+UCP-C1002-01-X2	4	2-	.	+UCP-C1002-01-X2	4	2-	.
=FIELD-PIT-10157	+	3+	.	+UCP-C1002-01-X2	5	3+	.	+UCP-C1002-01-X2	5	3+	.
=FIELD-PIT-10157	-	3-	.	+UCP-C1002-01-X2	6	3-	.	+UCP-C1002-01-X2	6	3-	.
=FIELD-TIT-10151	+	4+	.	+UCP-C1002-01-X2	7	4+	.	+UCP-C1002-01-X2	7	4+	.
=FIELD-TIT-10151	-	4-	.	+UCP-C1002-01-X2	8	4-	.	+UCP-C1002-01-X2	8	4-	.
=FIELD-TIT-10152	+	5+	.	+UCP-C1002-01-X2	9	5+	.	+UCP-C1002-01-X2	9	5+	.
=FIELD-TIT-10152	-	5-	.	+UCP-C1002-01-X2	10	5-	.	+UCP-C1002-01-X2	10	5-	.
-TIT-10152											
-TIT-10151											
-PIT-10157											
-PIT-10154											
-PIT-10153											

CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore

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SUBJECT Terminal diagram =20-C-1002+JIAX-C1002-01-X2  
 ADAPTED TO P&ID REVISION 02

CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 69

= 20-C-1002  
 + JIAX-C1002-01  
 CURRENT PAGE









TERMINAL STRIP DEFINITION

LOCAL CONTROL PANEL  
LP-C1002-01

X5 = CONNECTION PUSHBUTTONS AND LAMPS  
X9 = CONNECTION ESD BUTTON

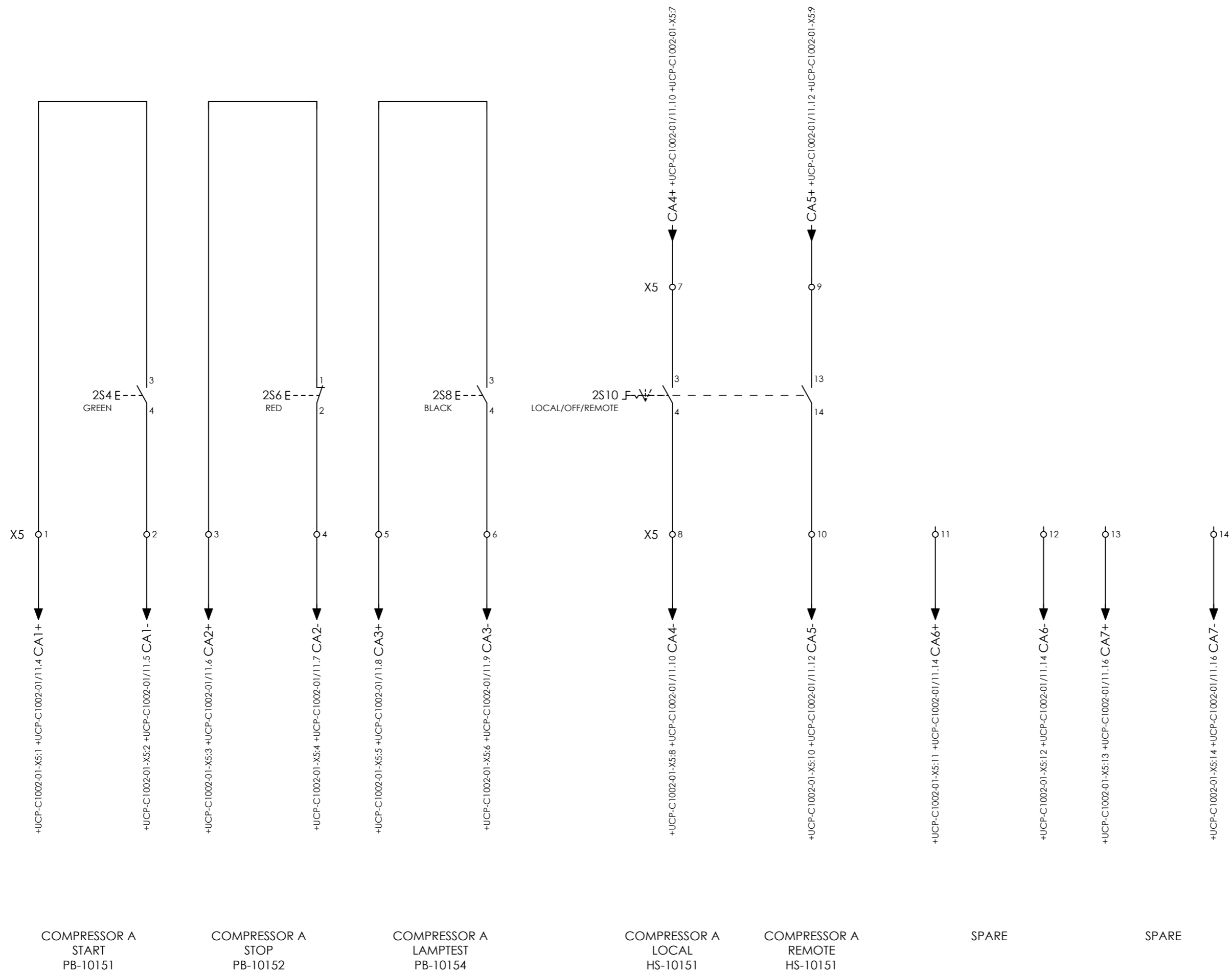


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

= 20-C-1002
+ LP-C1002-01
CURRENT PAGE



COMPRESSOR A  
START  
PB-10151

COMPRESSOR A  
STOP  
PB-10152

COMPRESSOR A  
LAMPTEST  
PB-10154

COMPRESSOR A  
LOCAL  
HS-10151

COMPRESSOR A  
REMOTE  
HS-10151

SPARE

SPARE

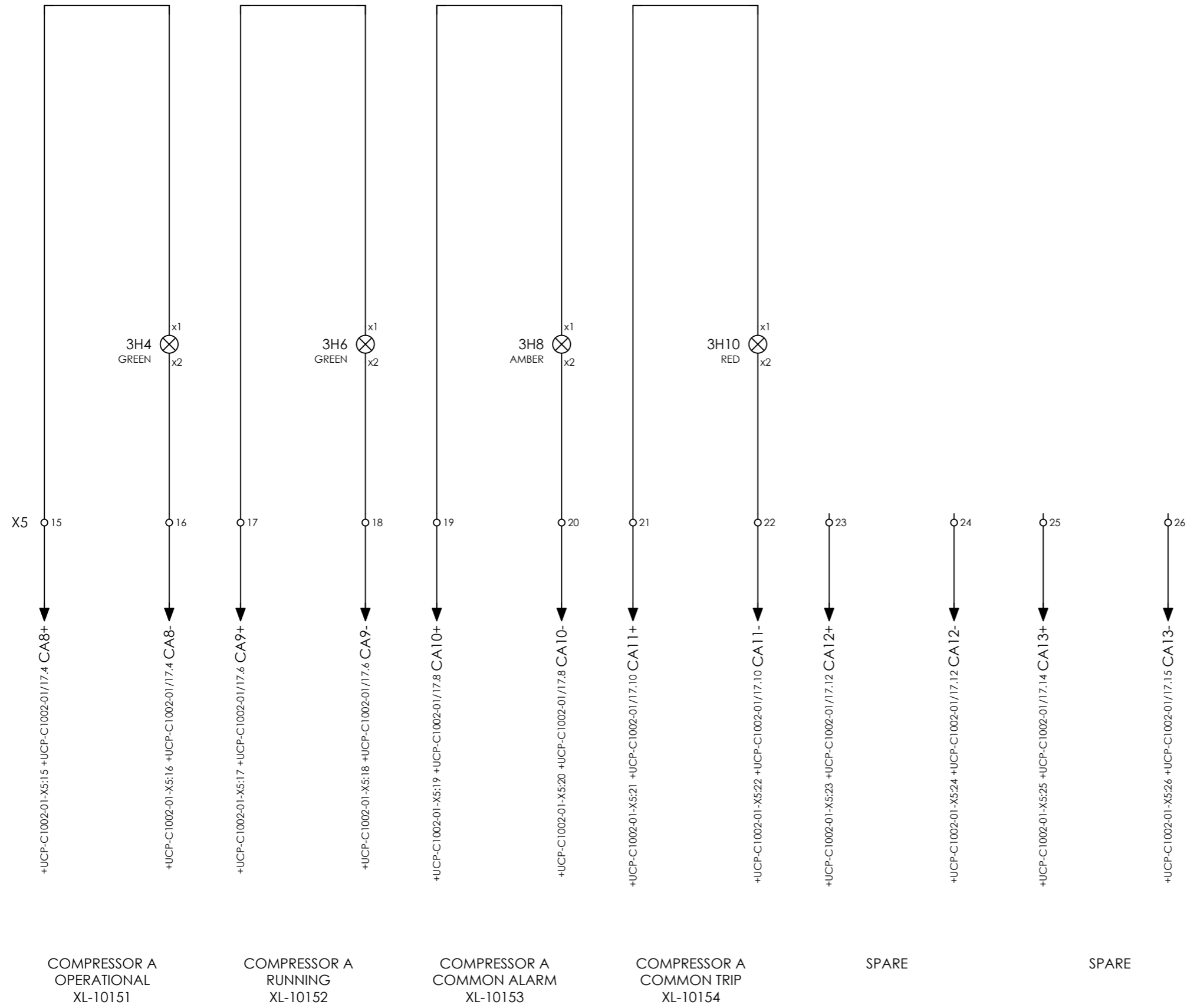


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION PUSHBUTTONS	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	74

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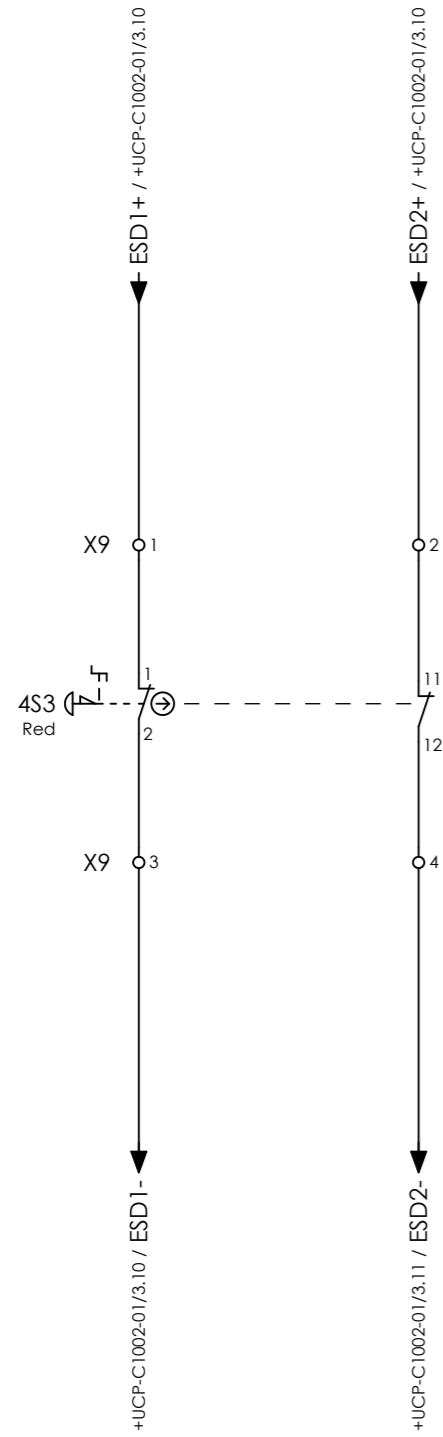


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT CONNECTION LAMPS	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	75

= 20-C-1002
+ LP-C1002-01
CURRENT PAGE



COMPRESSOR A  
ESD BUTTON  
PB-10153



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION ESD BUTTON	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	76

= 20-C-1002
+ LP-C1002-01
CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+LP-C1002-01-X5 CONNECTION PUSHBUTTONS AND LAMPS						Cable name	
Terminal	Connection point	Terminal	Jumper	Target designation	Connection point	Target designation	Connection point	Terminal	
1	1	1	.	-2S4	3	PB-10151	3		
2	2	2	.	-2S4	4	PB-10151	4		
3	3	3	.	-2S6	1	PB-10152	1		
4	4	4	.	-2S6	2	PB-10152	2		
5	5	5	.	-2S8	3	PB-10154	3		
6	6	6	.	-2S8	4	PB-10154	4		
7	7	7	.	-2S10	3	HS-10151	3		
8	8	8	.	-2S10	4	HS-10151	4		
9	9	9	.	-2S10	13	HS-10151	13		
10	10	10	.	-2S10	14	HS-10151	14		
11	11	11	.						
12	12	12	.						
13	13	13	.						
14	14	14	.						
15	15	15	.	-3H4	X1	XL-10151	X1		
16	16	16	.	-3H4	X2	XL-10151	X2		
17	17	17	.	-3H6	X1	XL-10152	X1		
18	18	18	.	-3H6	X2	XL-10152	X2		
19	19	19	.	-3H8	X1	XL-10153	X1		
20	20	20	.	-3H8	X2	XL-10153	X2		
21	21	21	.	-3H10	X1	XL-10154	X1		
22	22	22	.	-3H10	X2	XL-10154	X2		
23	23	23	.						
24	24	24	.						
25	25	25	.						
26	26	26	.						

10Px0,75 mm<sup>2</sup>

Please move XL-10154 from terminal strip X5 to X9



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT Terminal diagram =20-C-1002+LP-C1002-01-X5  
 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

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 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 77

= 20-C-1002  
 + LP-C1002-01  
 CURRENT PAGE  
 5



TERMINAL STRIP DEFINITION

POWER DISTRIBUTION BOARD  
PD-C-1002-01

X0 = POWER SUPPLY 400VAC FROM CUSTOMER  
 X1 = MAIN MOTOR  
 X2 = OIL HEATER  
 X8 = SIGNALS TO / FROM UCP  
 X10 = CONNECTION PT100



CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

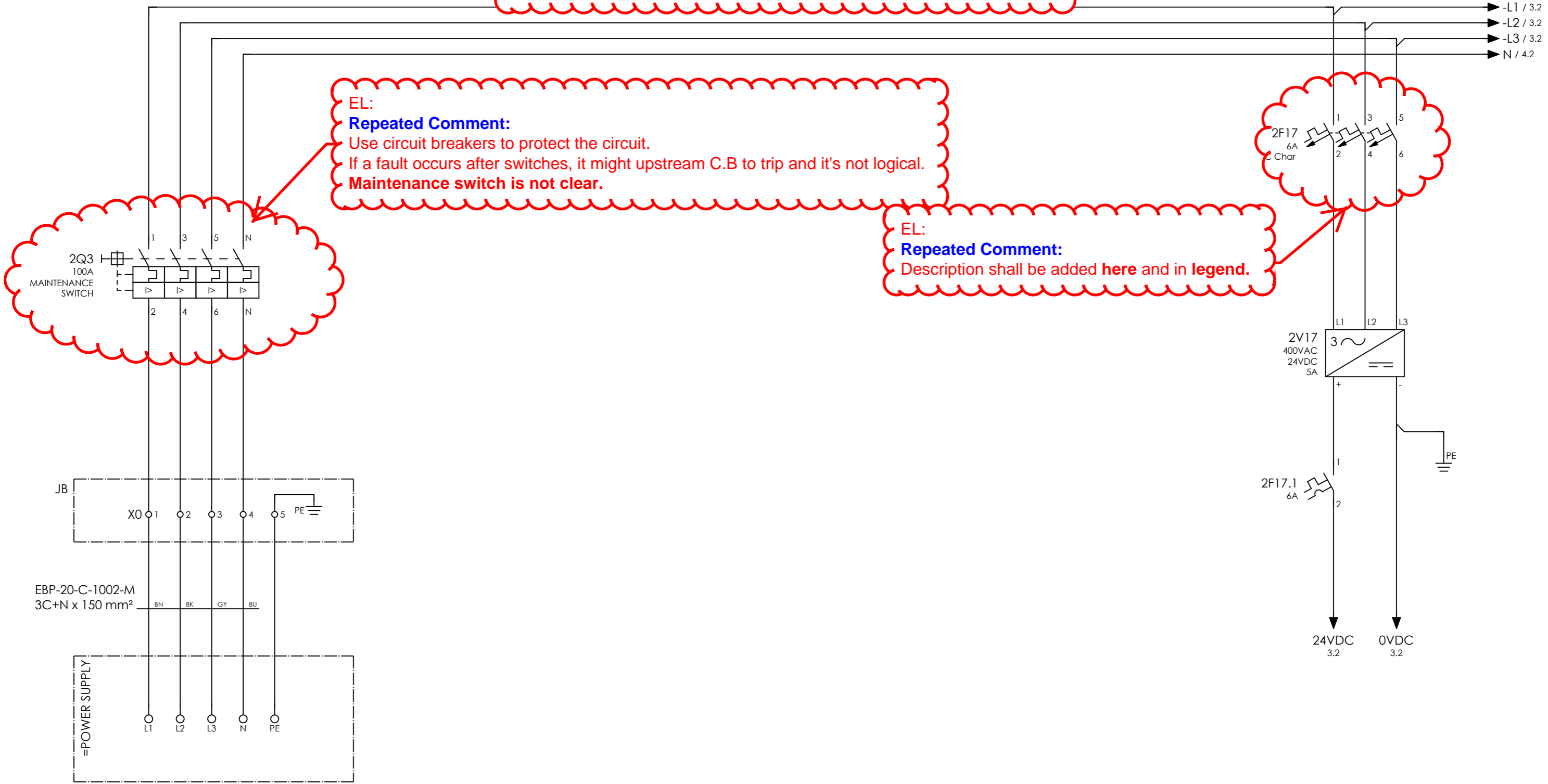
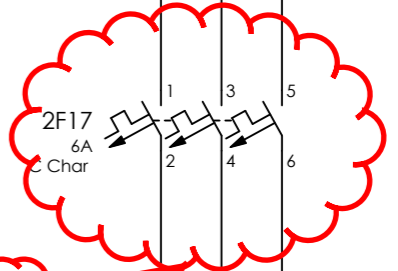
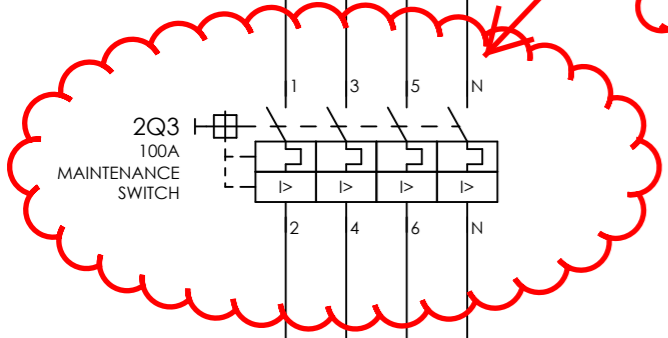
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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	
REVISION	
PAGE NUMBER	94

= 20-C-1002
+ PD-C-1002-01
CURRENT PAGE

EL:  
**Repeated Comment:**  
 Complete legend sheet shall be added for power distribution panel items.

EL:  
**Repeated Comment:**  
 Use circuit breakers to protect the circuit.  
 If a fault occurs after switches, it might upstream C.B to trip and it's not logical.  
**Maintenance switch is not clear.**

EL:  
**Repeated Comment:**  
 Description shall be added here and in legend.



POWER SUPPLY FROM CUSTOMER  
 400VAC/50HZ/3PH/N/PE

EL:  
**CU/XLPE/SWA/PVC**

From: SWB3P-0116-1/1  
 Cable Type and Size: CU/XLPE/AVA/PVC 3.5\*150mm<sup>2</sup>  
 Gland: EX-IP65, C2/M63

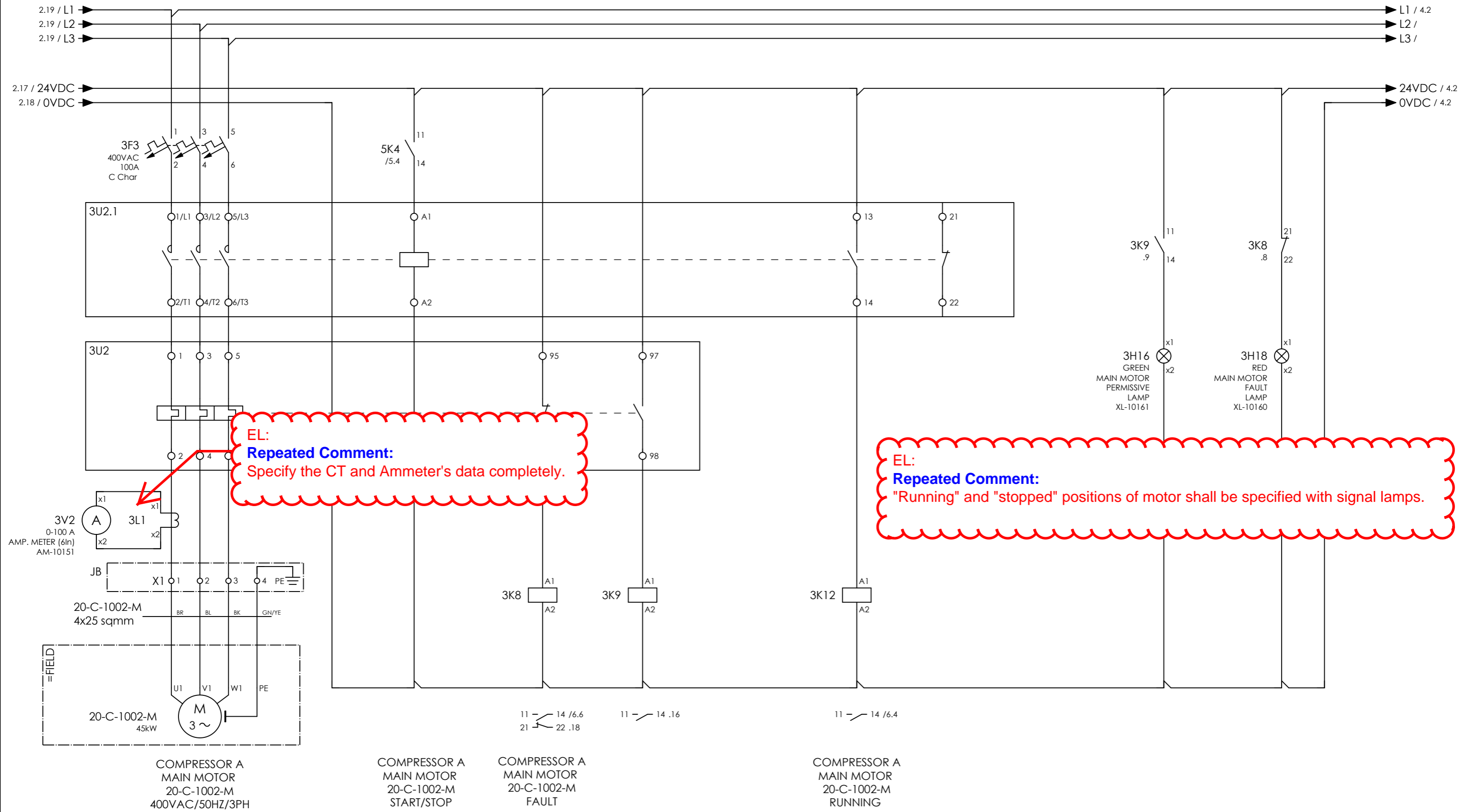


CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT POWER SUPPLY  
 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project  
 AIRPACK REF. 17811-05A

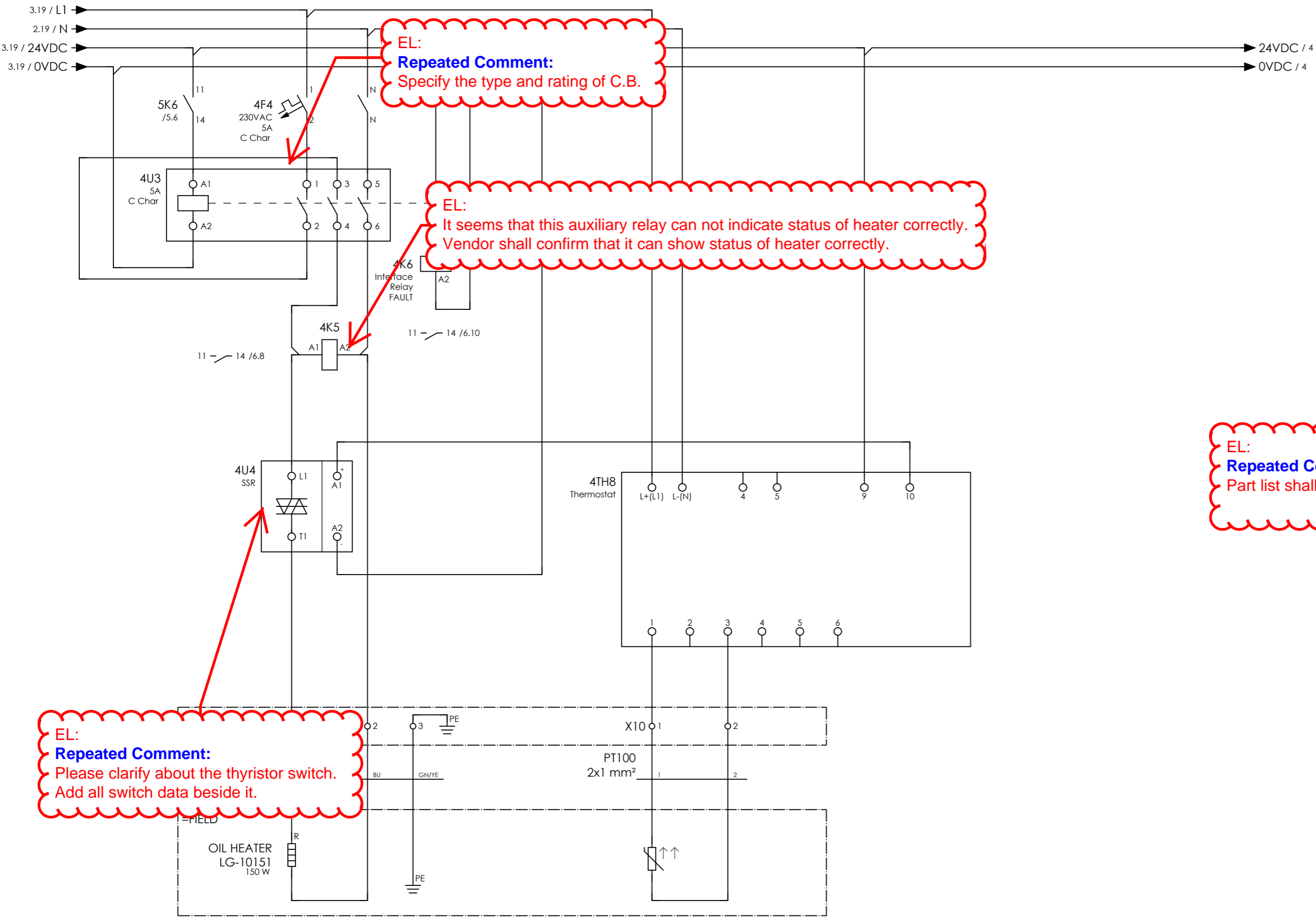
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 CHECKED BY RBE  
 LAST MODIFICATION DATE 07/12/2021  
 AIRPACK DWG NO. 17811-05  
 REVISION 02  
 TOTAL PAGE AMOUNT 80

= 20-C-1002  
 + PD-C-1002-01  
 CURRENT PAGE  
 2



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT MAIN MOTOR		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ PD-C-1002-01
EQUIPMENT LOCATION	Iran, Onshore	02		LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.	17811-05	
		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	81	

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ PD-C-1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	81	



EL:  
**Repeated Comment:**  
 Specify the type and rating of C.B.

EL:  
 It seems that this auxiliary relay can not indicate status of heater correctly.  
 Vendor shall confirm that it can show status of heater correctly.

EL:  
**Repeated Comment:**  
 Part list shall be added in document, too.

EL:  
**Repeated Comment:**  
 Please clarify about the thyristor switch.  
 Add all switch data beside it.

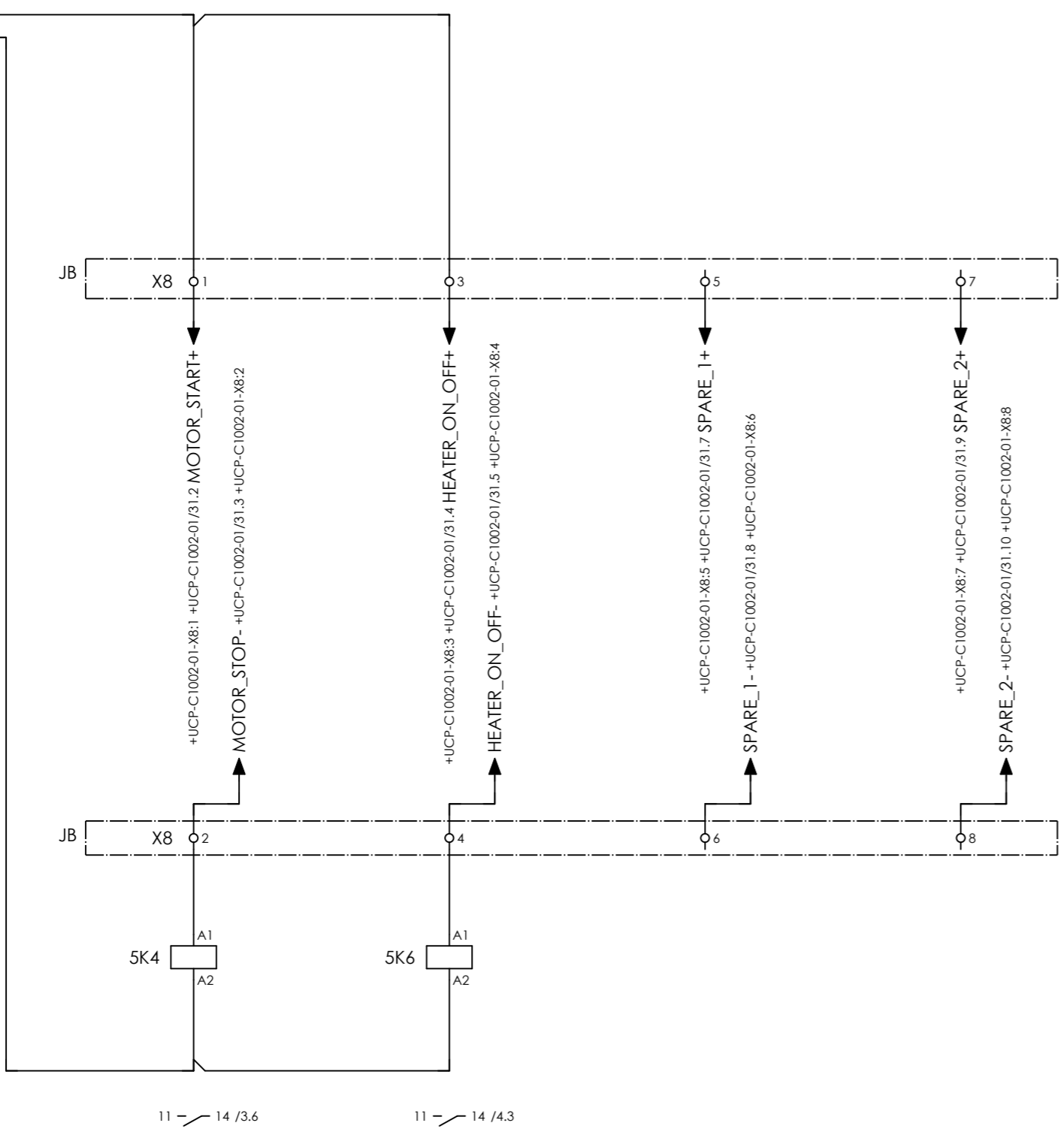
OIL HEATER LG-10151  
 230VAC/50HZ/1PH



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	OIL HEATER
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	02
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
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		AIRPACK REF.	17811-05A

DRAWN BY	htaher	= 20-C-1002
CHECKED BY	RBE	+ PD-C-1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	82	

/ 24VDC  
/ -0VDC



COMPRESSOR A  
MAIN MOTOR 20-C-1002-M  
START/STOP

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF

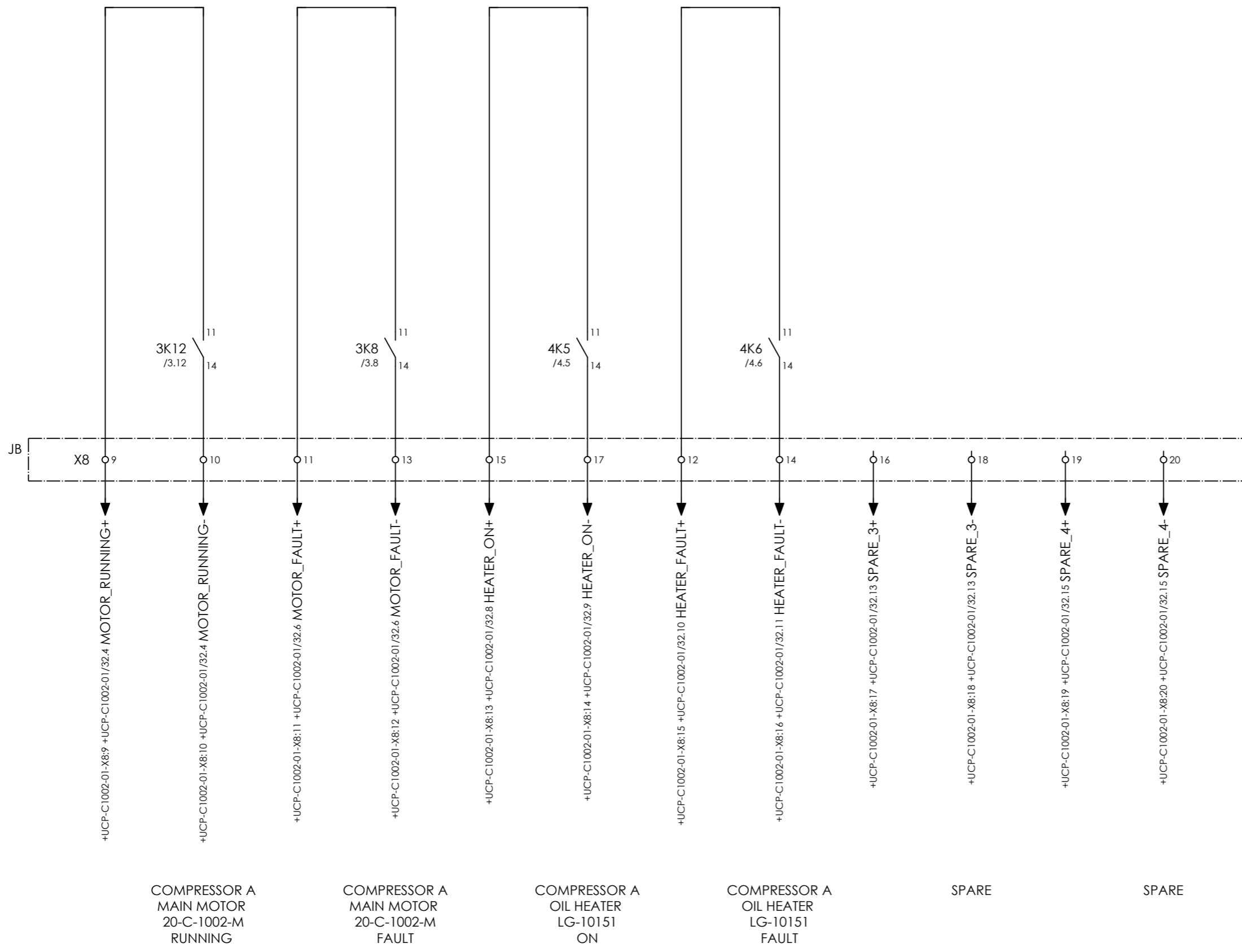
SPARE

SPARE



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		DRAWN BY		htaher		= 20-C-1002	
SIGNALS FROM UCP		CHECKED BY		RBE		+ PD-C-1002-01	
ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE		07/12/2021		CURRENT PAGE	
CLIENT	Bushehr Petrochemical Company (BUPC)	AIRPACK DWG NO.		17811-05			
CLIENT REF.	Bushehr MEG Plant Project	REVISION		02			
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT		83			



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EQUIPMENT LOCATION	Iran, Onshore

SUBJECT SIGNALS TO UCP	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	84

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# Terminal diagram

Cable name		Strip =20-C-1002+PD-C-1002-01-X1 MAIN MOTOR							Cable name	
		Target designation	Connection point	Terminal	Jumper	Target designation	Connection point			
-20-C-1002-M		=FIELD-20-C-1002-M	U1	1	.	-3U2.1	2/T1			
		=FIELD-20-C-1002-M	V1	2	.	-3U2.1	4/T2			
		=FIELD-20-C-1002-M	W1	3	.	-3U2.1	6/T3			
		=FIELD-20-C-1002-M	PE	4	.					
4x25 sqmm										
BR										
BL										
BK										
GN/YE										



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 REVISION 02  
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# Terminal diagram

Cable name		Strip =20-C-1002+PD-C-1002-01-X8 SIGNALS TO / FROM UCP						Cable name		
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
+UCP-C1002-01-DB_COMA	20x1 mm²									
1	1	+UCP-C1002-01-X8	1	.	-4U4	13				
2	2	+UCP-C1002-01-X8	2	.	-5K4	A1				
3	3	+UCP-C1002-01-X8	3	.						
4	4	+UCP-C1002-01-X8	4	.	-5K6	A1				
5	5	+UCP-C1002-01-X8	5	.						
6	6	+UCP-C1002-01-X8	6	.						
7	7	+UCP-C1002-01-X8	7	.						
8	8	+UCP-C1002-01-X8	8	.						
9	9	+UCP-C1002-01-X8	9	.	-3K12	11				
10	10	+UCP-C1002-01-X8	10	.	-3K12	14				
11	11	+UCP-C1002-01-X8	11	.	-3K8	11				
15	15	+UCP-C1002-01-X8	15	.	-4K6	11				
12	12	+UCP-C1002-01-X8	12	.	-3K8	14				
16	16	+UCP-C1002-01-X8	16	.	-4K6	14				
13	13	+UCP-C1002-01-X8	13	.	-4K5	11				
17	17	+UCP-C1002-01-X8	17	.						
14	14	+UCP-C1002-01-X8	14	.	-4K5	14				
18	18	+UCP-C1002-01-X8	18	.						
19	19	+UCP-C1002-01-X8	19	.						
20	20	+UCP-C1002-01-X8	20	.						



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# Terminal diagram

Cable name		Connection point		Terminal		Jumper		Target designation	
Strip =20-C-1002+PD-C-1002-01-X10 CONNECTION PT100		1		1		.		-4TH8	
		2		2		.		-4TH8	
-PT100		2x1 mm²		1					
				2					



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