








<b>OWNER:</b>  شرکت مست و سوی توهر ایرانیاان (سهامی خاص)	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>							<b>EPC CONTRACTOR:</b>  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
<b>MC :</b>  شرکت مست و سوی توهر ایرانیاان (سهامی خاص)	<b>UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER</b>								
<b>Owner Document Number: 17811-05A</b>	<b>Project</b> BU	<b>Area</b> 20	<b>Phase</b> VD	<b>Unit</b> 303	<b>Dis.</b> IN	<b>Doc.</b> DIG	<b>Seq.</b> 0043	<b>Contract No : 52-98/445</b>	
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# UCP/LCP/JB WIRING DIAGRAM FOR NITROGEN GAS BOOSTER

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	
<b>Rev.</b>	<b>Date</b>	<b>Purpose of Issue</b>		<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>	<b>AC Code</b>
						<b>Class: 1</b>	<b>Phase: P</b>

<b>OWNER:</b>  شرکت ست دوی توسعه ایرانین (سامی تاسیس)	<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 دوی توسعه ایرانین (سامی تاسیس)	<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:</b> 17811-05A	BU	20	VD	303	IN	DIG	0043	<b>Rev.:</b>	<b>Page</b>
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61.	X	X	X		
62.	X	X	X		
63.	X	X	X		
64.	X	X	X		
65.	X	X	X		
Till 108		X	X		
Till 78		X	X		
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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SUBJECT	
Title page / cover sheet	
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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# 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'

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

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
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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/6	Device tag list : =+UCP-C1002-01-2TH11 - =20-C-1002+UCP-C1002-01-16H6	6	07/12/2021	htaher
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=20-C-1002+UCP-C1002-01/3	EMERGENCY SHUTDOWN	13	07/12/2021	htaher
=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
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EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)	
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EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
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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

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

=
+
CURRENT PAGE

# 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

DRAWN BY	htaher	=
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

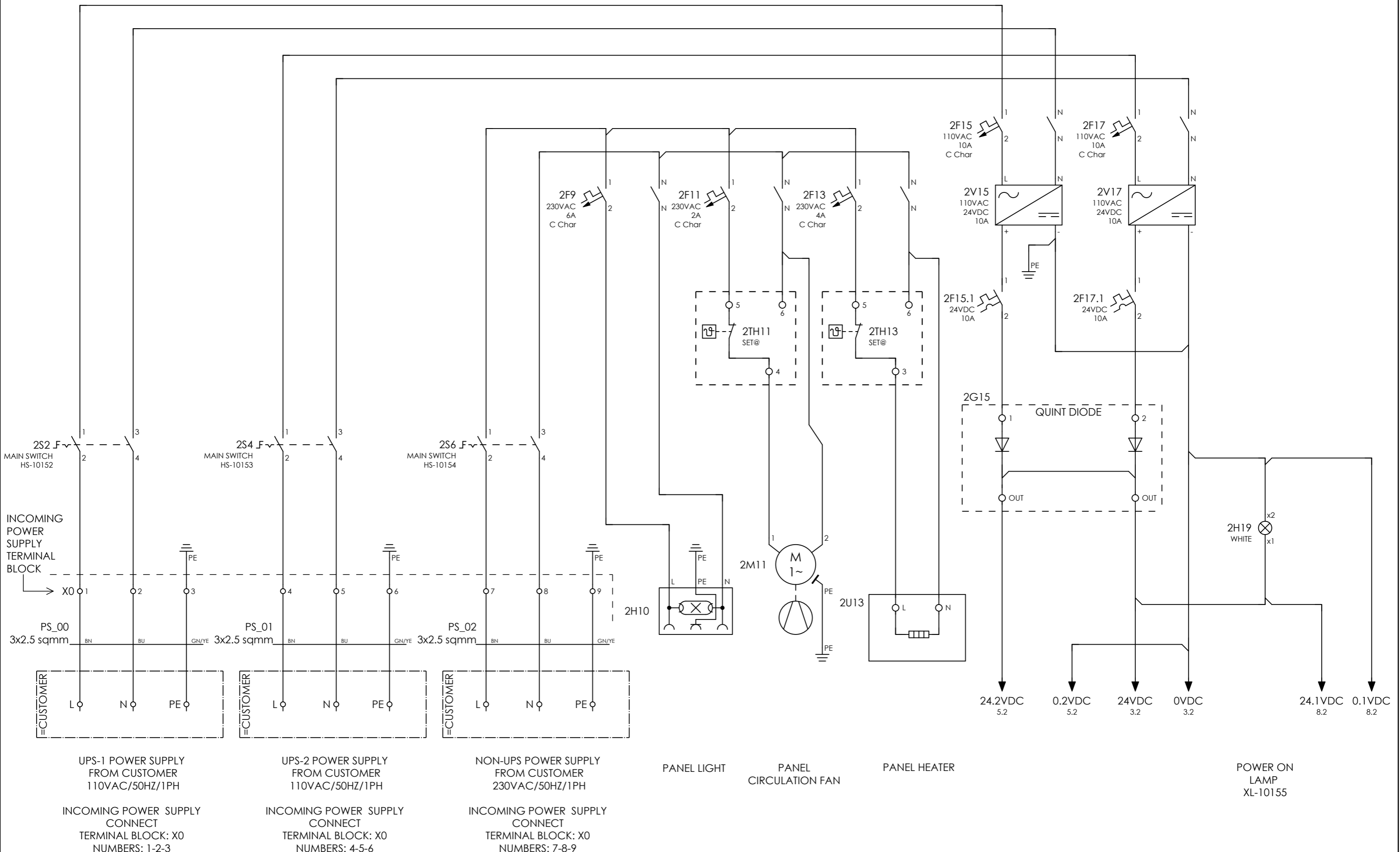
TERMINAL STRIP DEFINITION

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	TERMINAL STRIP DEFINITION	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
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	AIRPACK REF.	17811-05A	REVISION	02		
			TOTAL PAGE AMOUNT	11		



UPS-1 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH  
INCOMING POWER SUPPLY CONNECT TERMINAL BLOCK: XO NUMBERS: 1-2-3

UPS-2 POWER SUPPLY FROM CUSTOMER 110VAC/50HZ/1PH  
INCOMING POWER SUPPLY CONNECT TERMINAL BLOCK: XO NUMBERS: 4-5-6

NON-UPS POWER SUPPLY FROM CUSTOMER 230VAC/50HZ/1PH  
INCOMING POWER SUPPLY CONNECT TERMINAL BLOCK: XO NUMBERS: 7-8-9

PANEL LIGHT

PANEL CIRCULATION FAN

PANEL HEATER

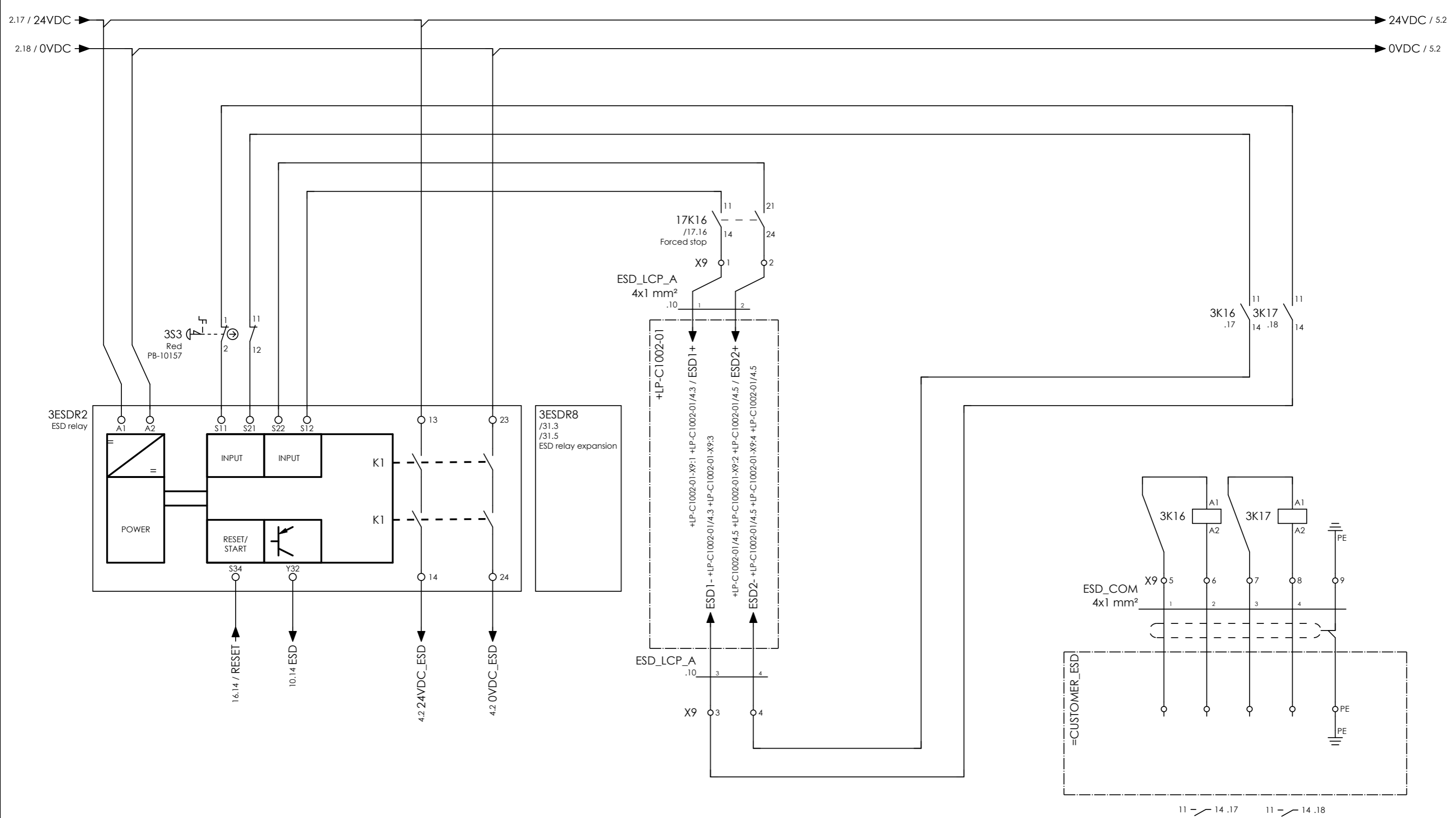
POWER ON LAMP XL-10155



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

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	



EMERGENCY SHUTDOWN RELAY

EMERGENCY STOP BUTTON ON PANEL PB-10157

COMPRESSOR A ESD BUTTON LOCAL PB-10153

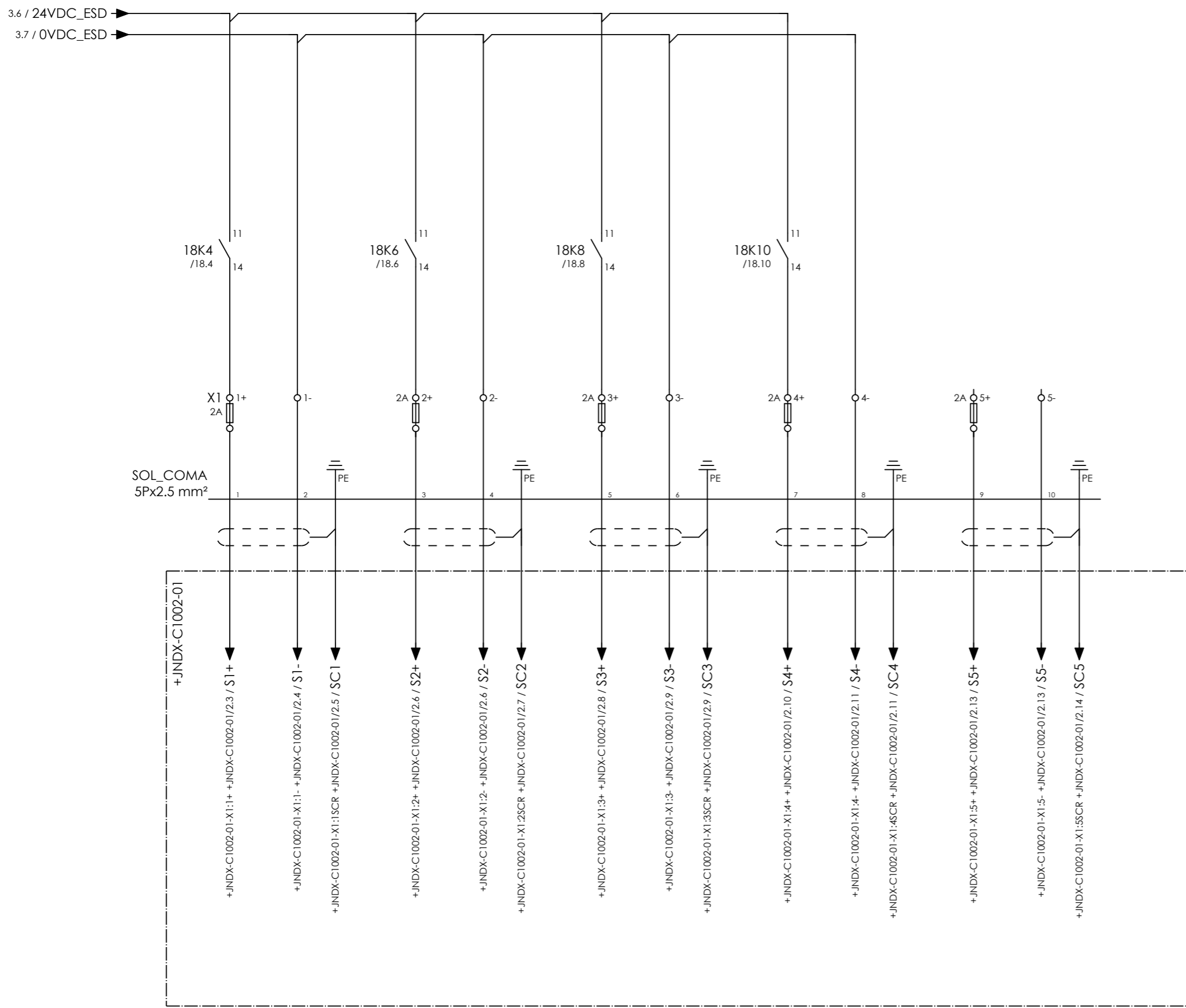
EMERGENCY SHUTDOWN TRIP COMMAND FROM CUSTOMER ESD HS-108-SD-1



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

SUBJECT EMERGENCY SHUTDOWN	
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	13	



COMPRESSOR A  
INLET  
SOLENOID VALVE  
XY-10151

COMPRESSOR A  
COOLING WATER INLET  
SOLENOID VALVE  
XY-10152

SPARE

SPARE

SPARE

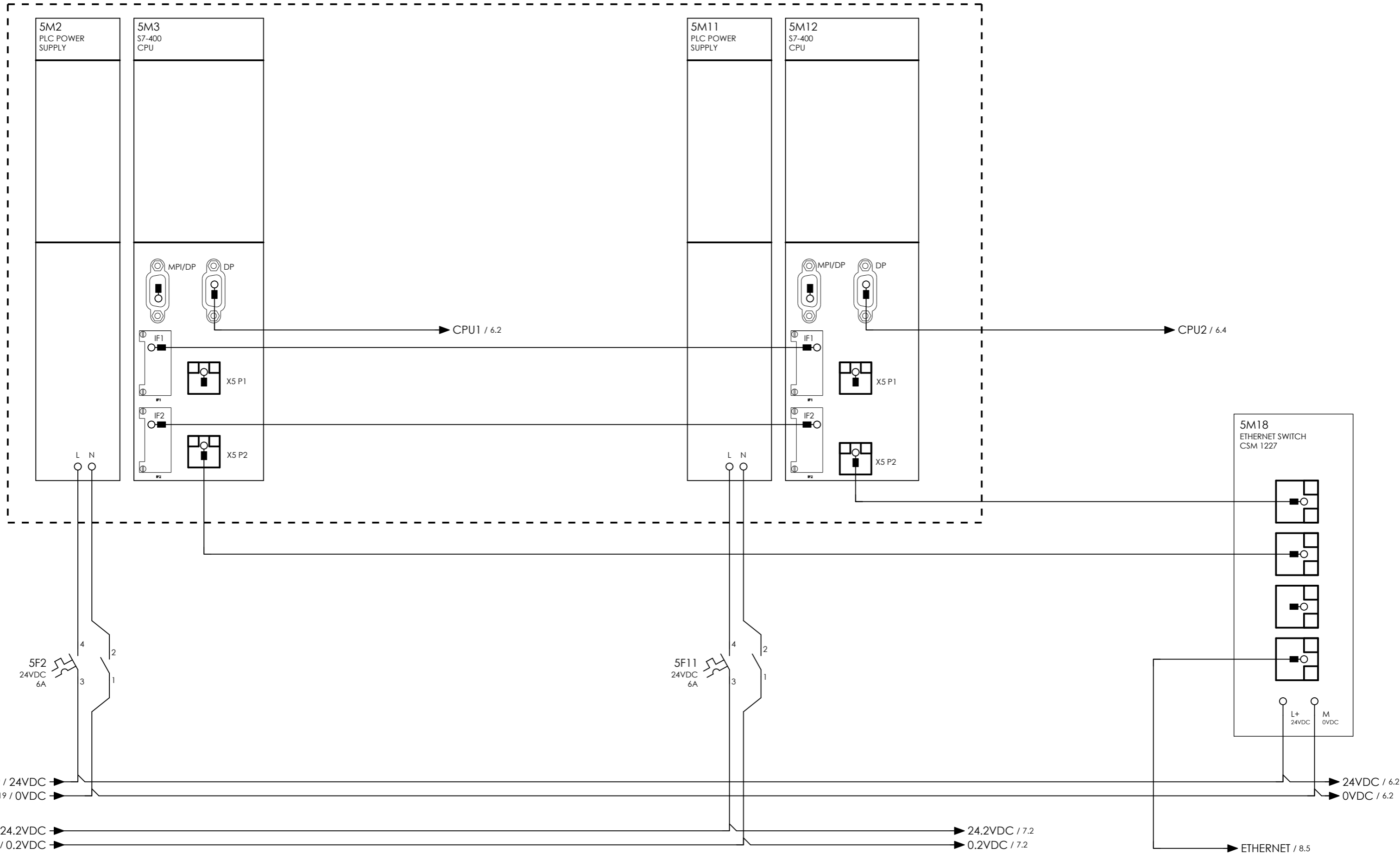


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SOLENOIDS	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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

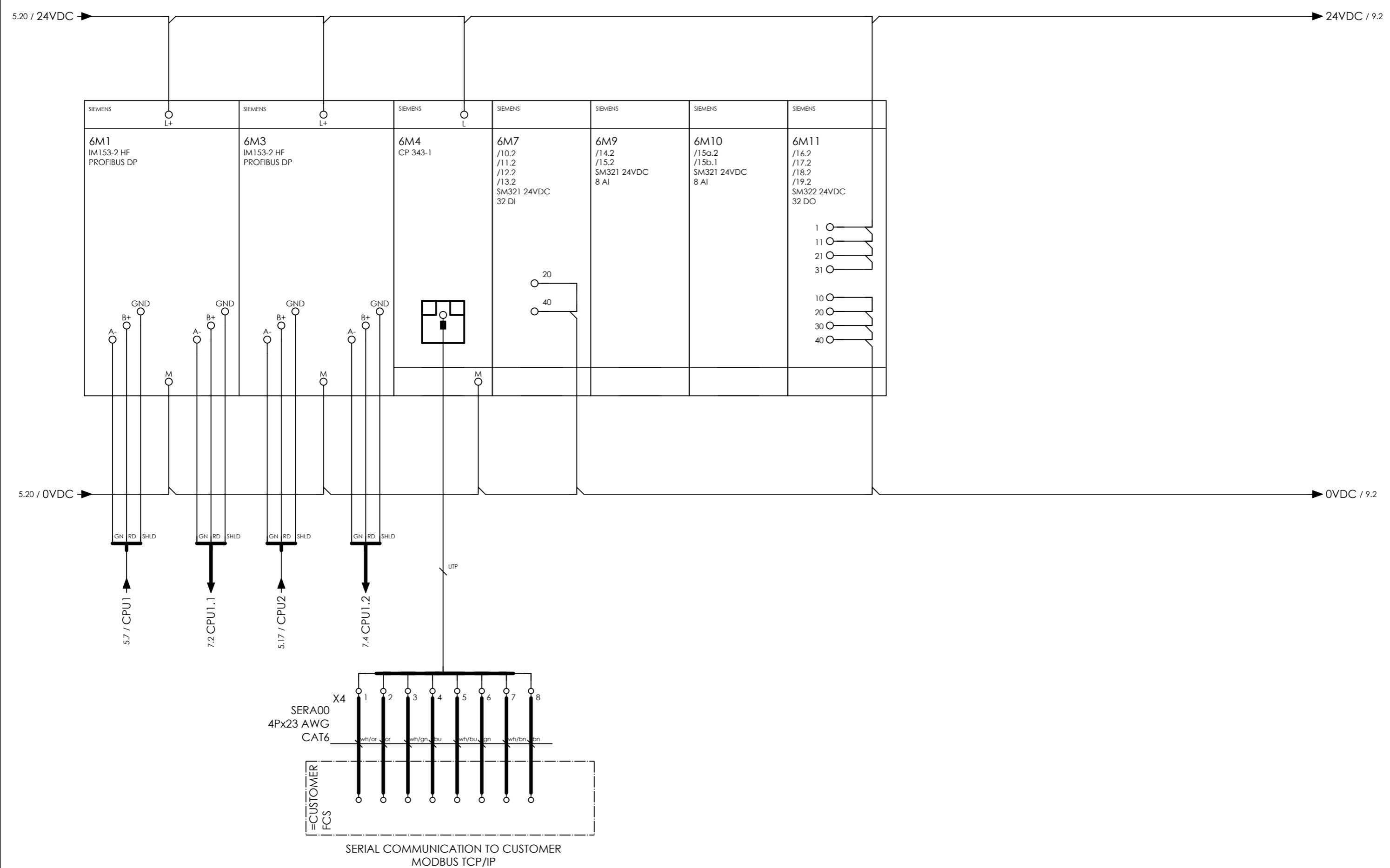
= 20-C-1002
+ UCP-C1002-01
CURRENT PAGE



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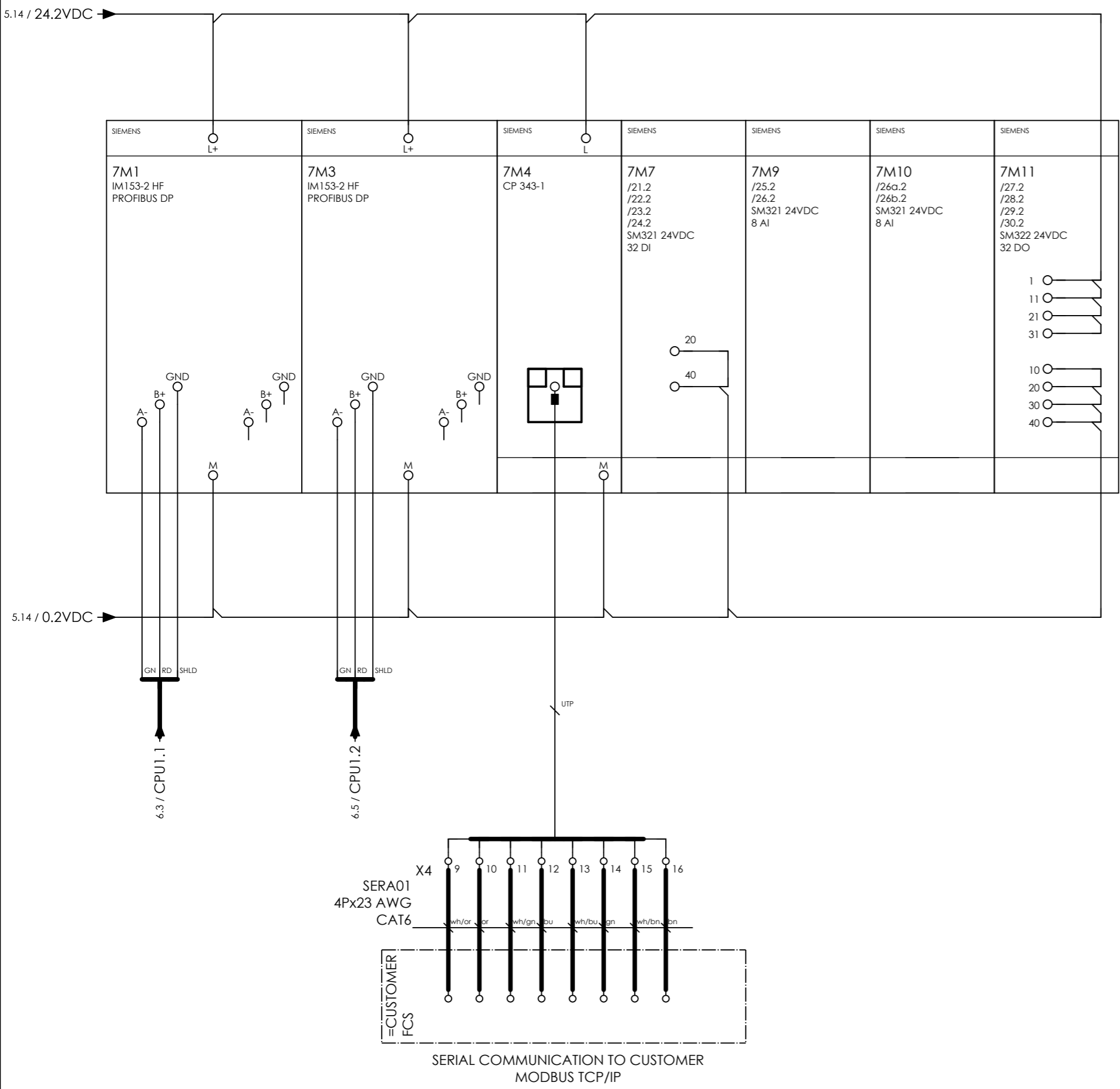
SUBJECT PLC LAYOUT	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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	SUBJECT IO RACK I	
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION	02
EQUIPMENT LOCATION	Iran, Onshore	CLIENT	Bushehr Petrochemical Company (BUPC)
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 REF.	17811-05A

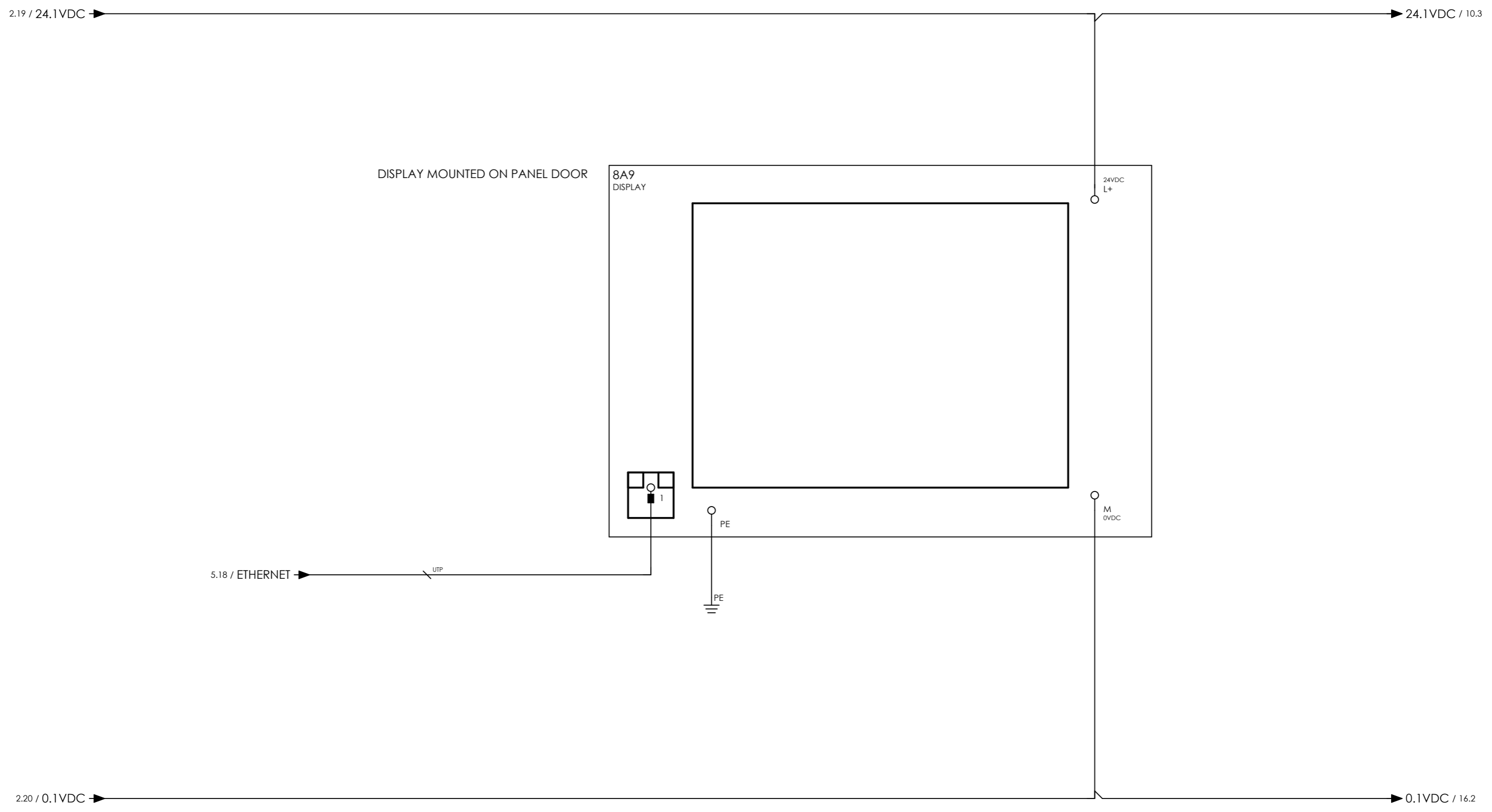
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CHECKED BY	RBE	+ UCP-C1002-01
LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	16	



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT		IO RACK 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	= 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	17	



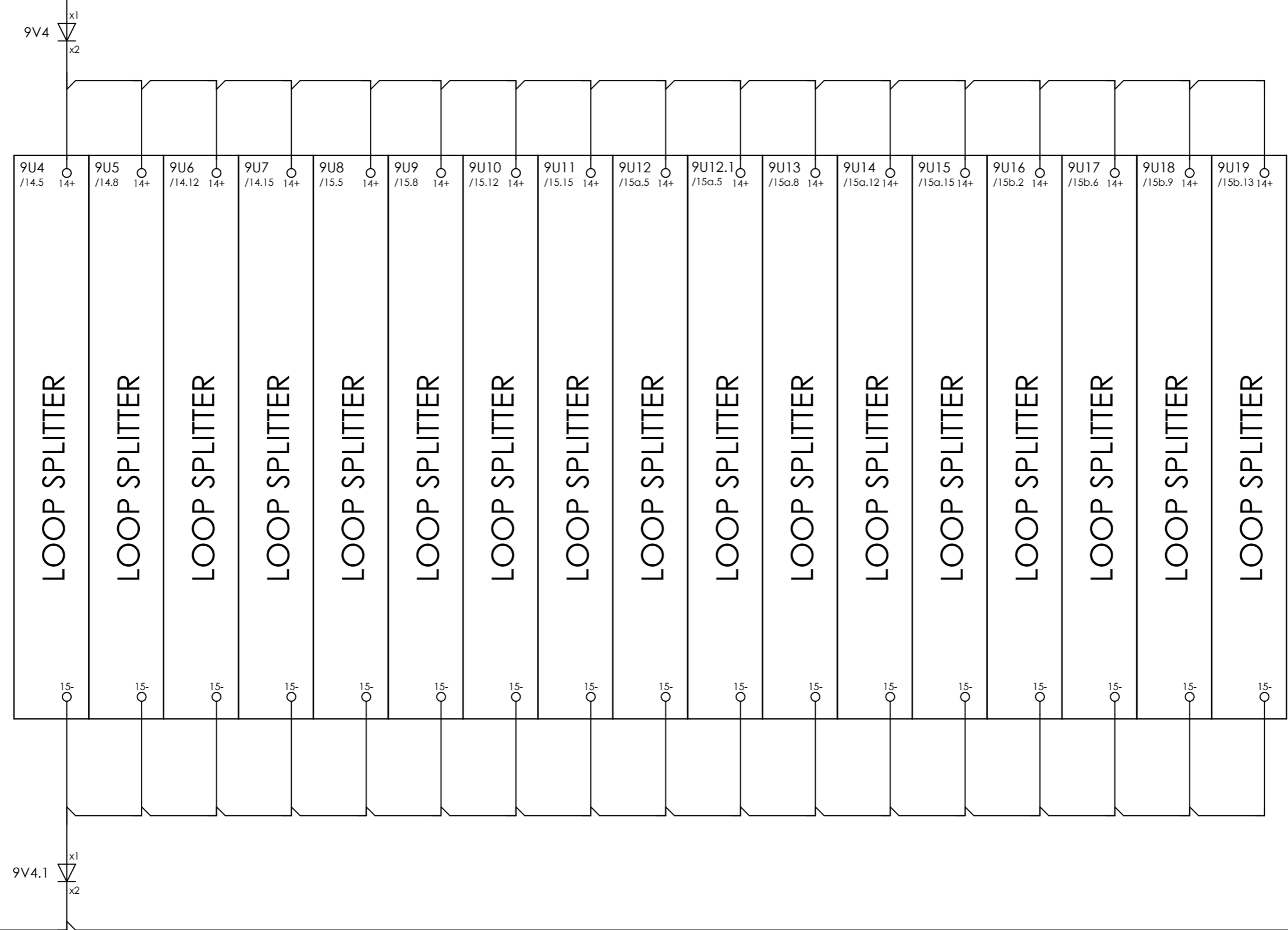
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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



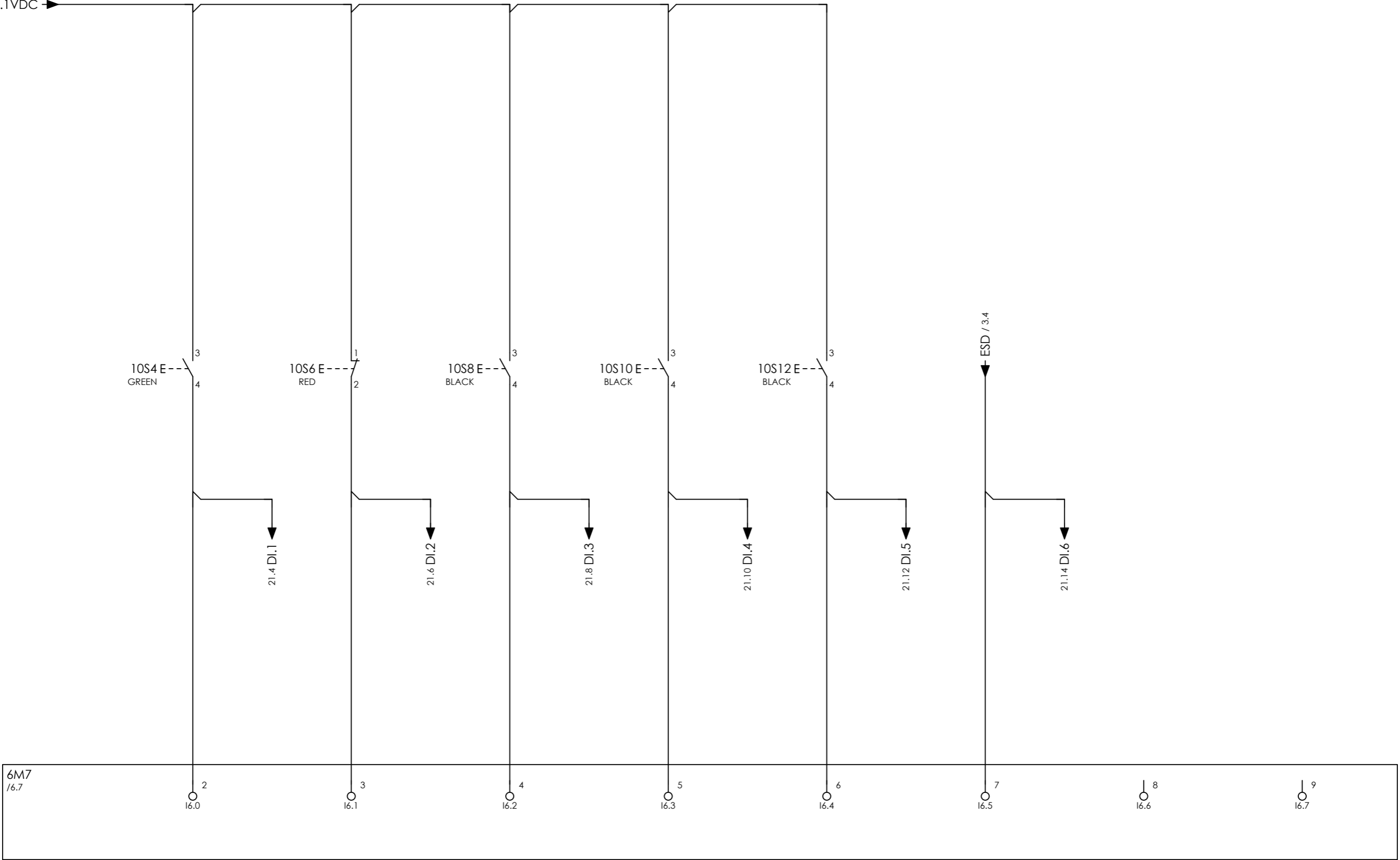
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT LOOP SPLITTERS	
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	19

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

8.19 / 24.1VDC →

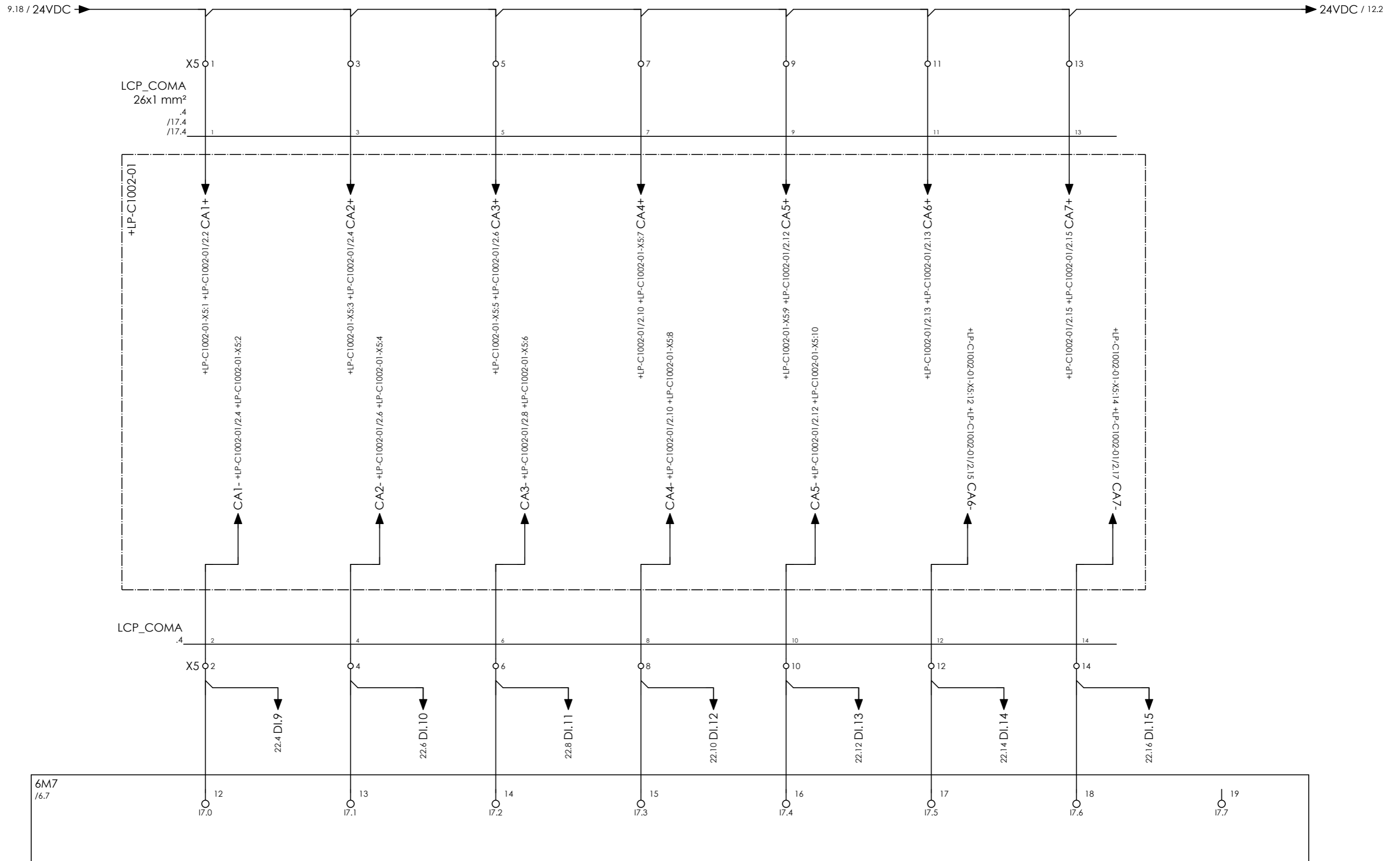


6M7 16.7	2 16.0	3 16.1	4 16.2	5 16.3	6 16.4	7 16.5	8 16.6	9 16.7
-------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

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	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	20	



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



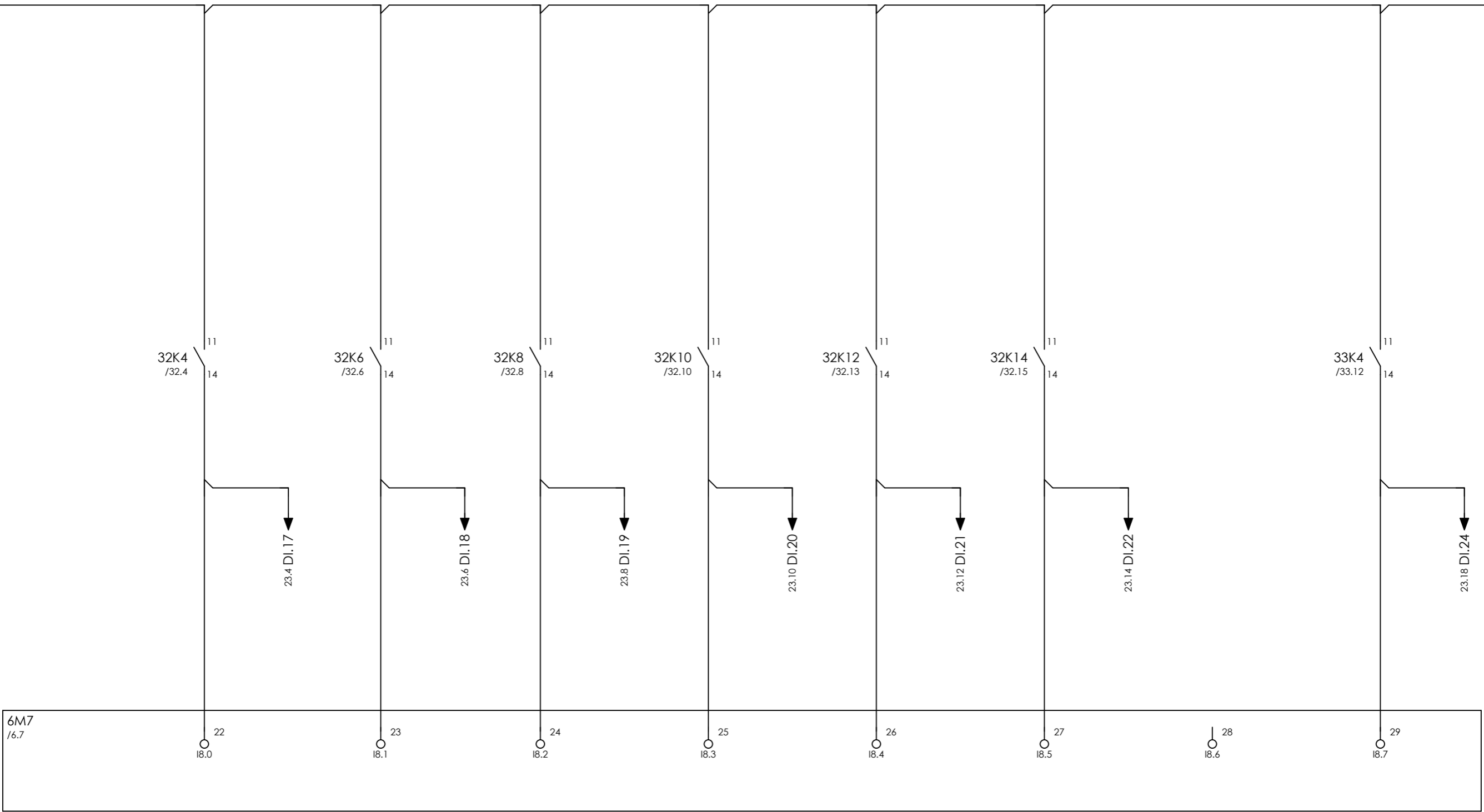
CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

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	21

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

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



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	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

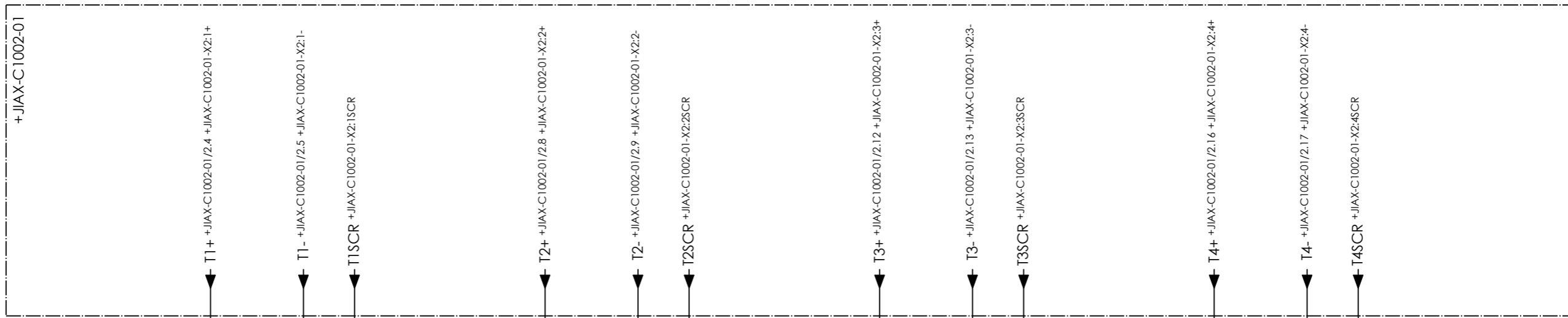
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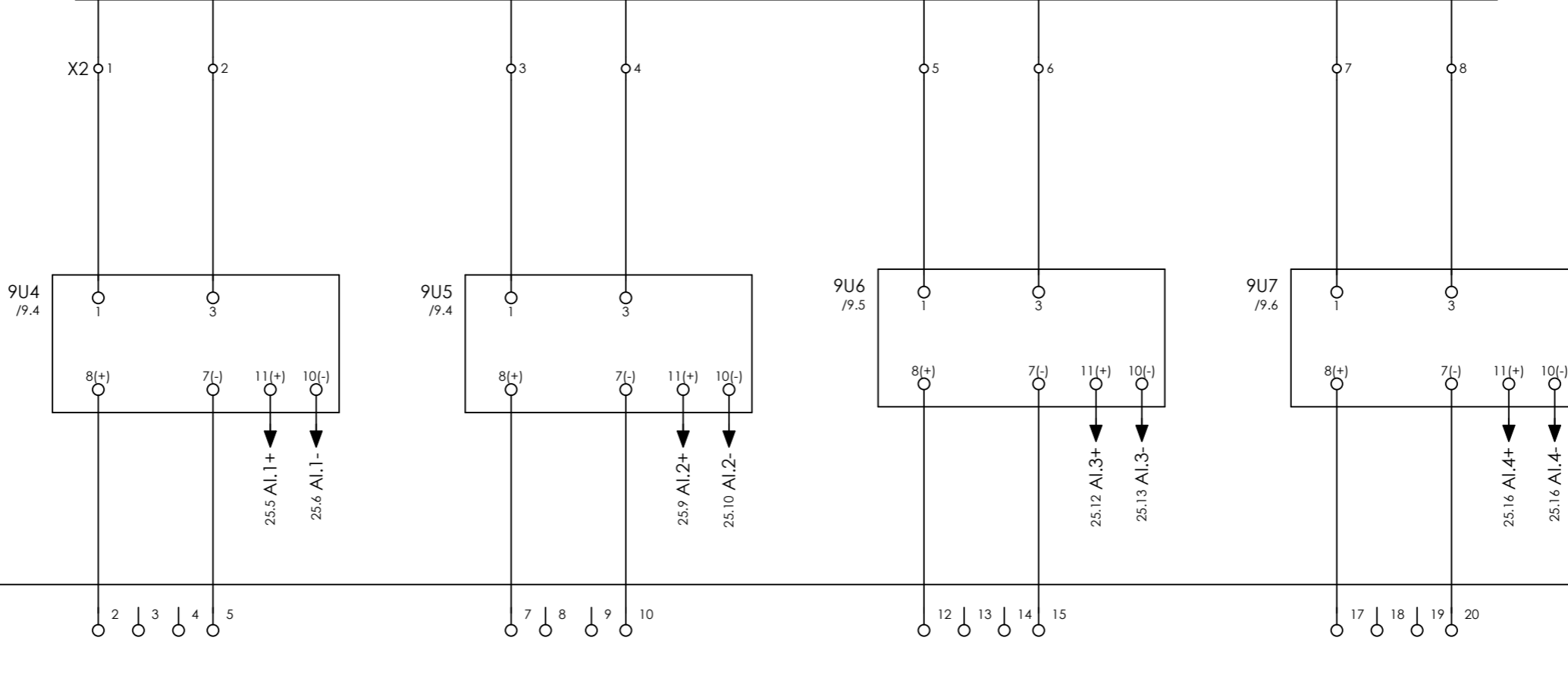


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT		DRAWN BY	htaheer	= 20-C-1002
DIGITAL INPUTS I		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	23	



TR\_COMA  
20Px0,75 mm<sup>2</sup>  
/15.5  
/15a.5  
/15b.3



COMPRESSOR A  
INLET PRESSURE  
PIT-10153

COMPRESSOR A  
OIL SYSTEM PRESSURE  
PIT-10154

COMPRESSOR A  
1ST DOWNSTREAM INTERCOOLER PRESSURE  
PIT-10157

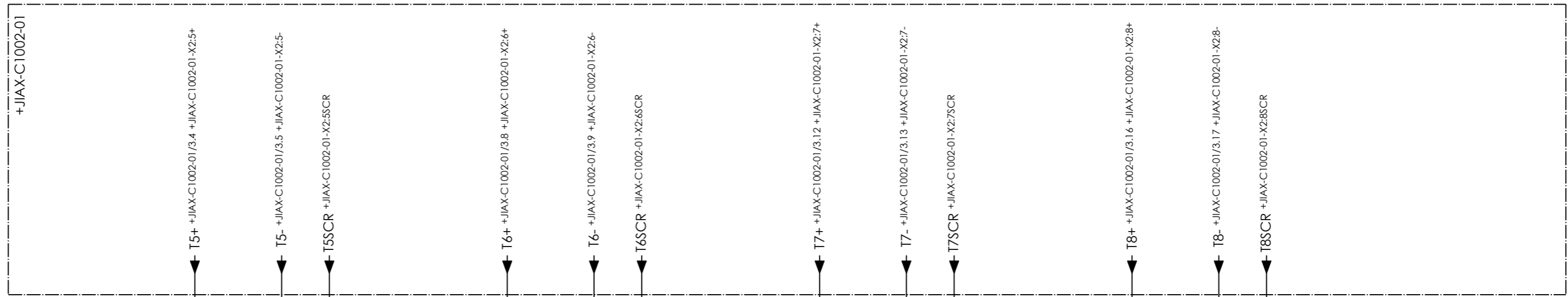
COMPRESSOR A  
INLET TEMPERATURE  
TIT-10151



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

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	24	



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

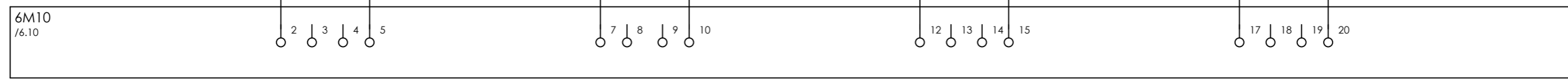
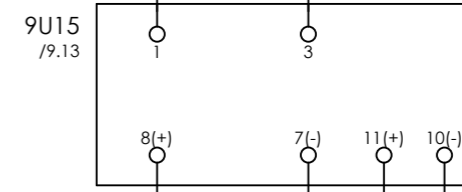
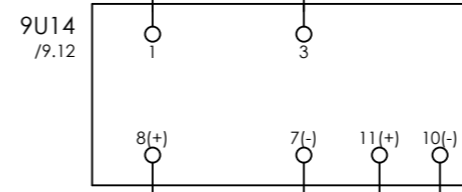
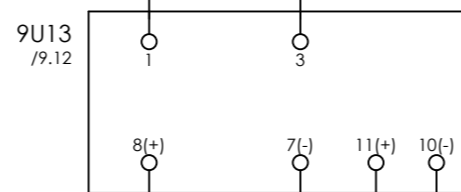
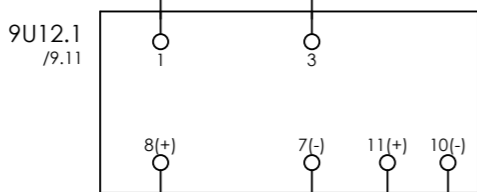
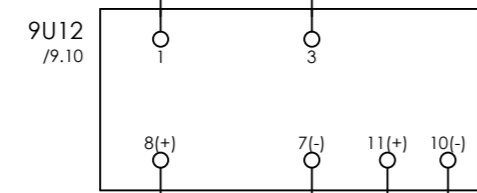
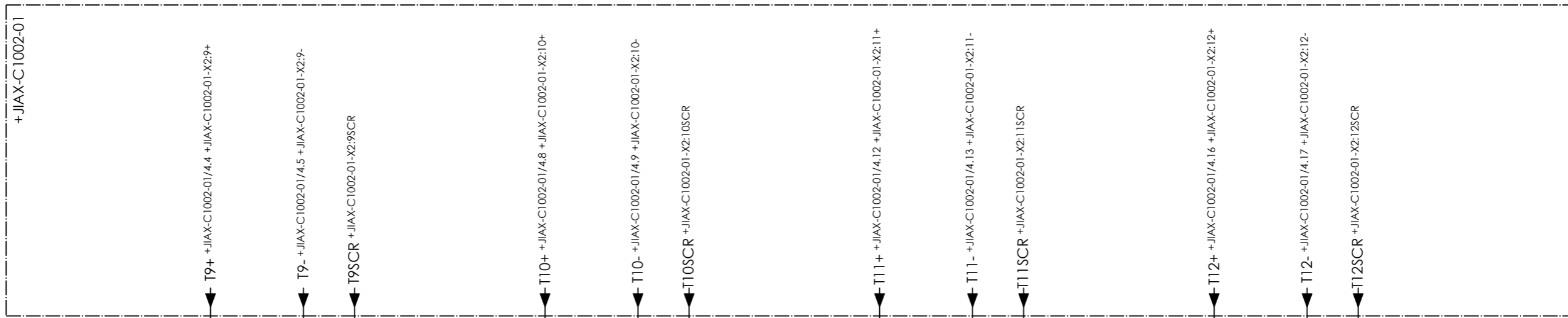


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

DRAWN BY	htaher
CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	25

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



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

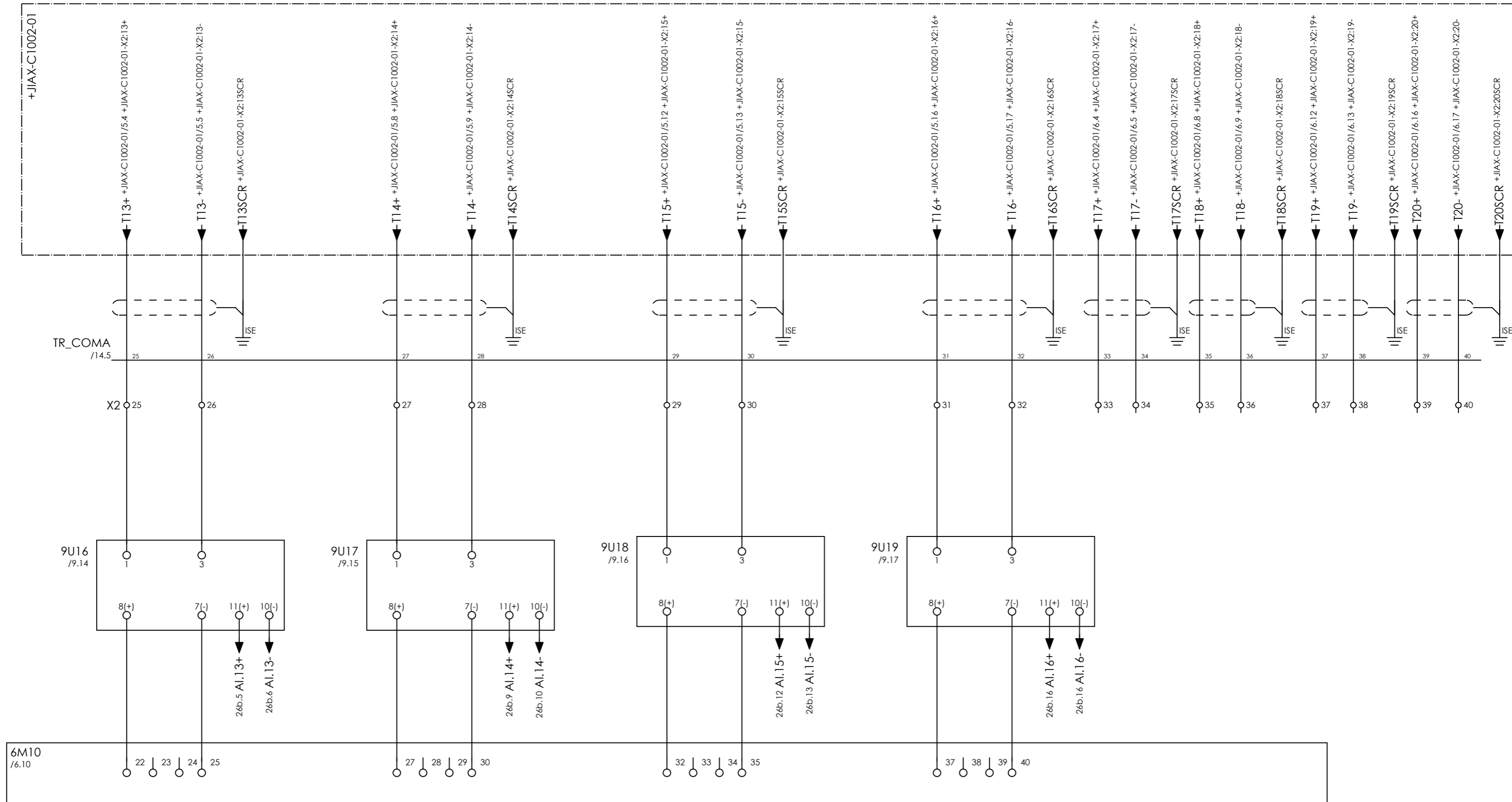


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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	26	

AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	26



COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155

SPARE

SPARE

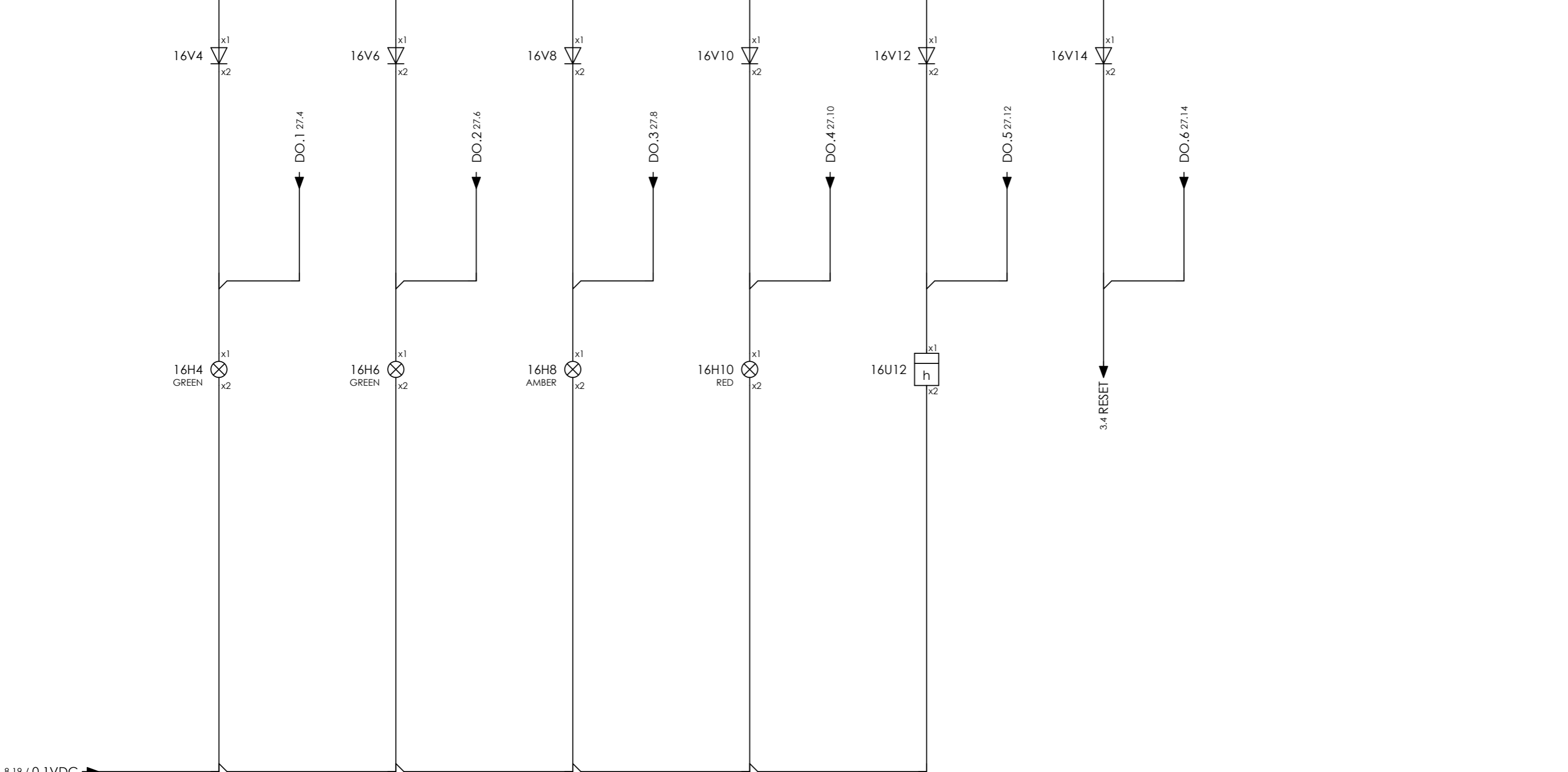
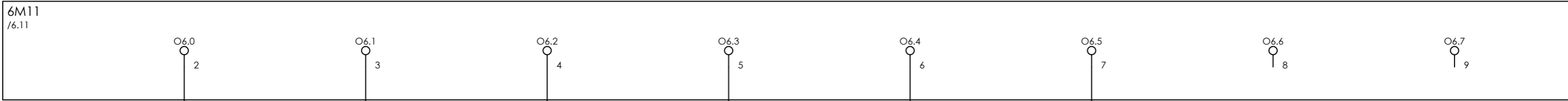
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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS I	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT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

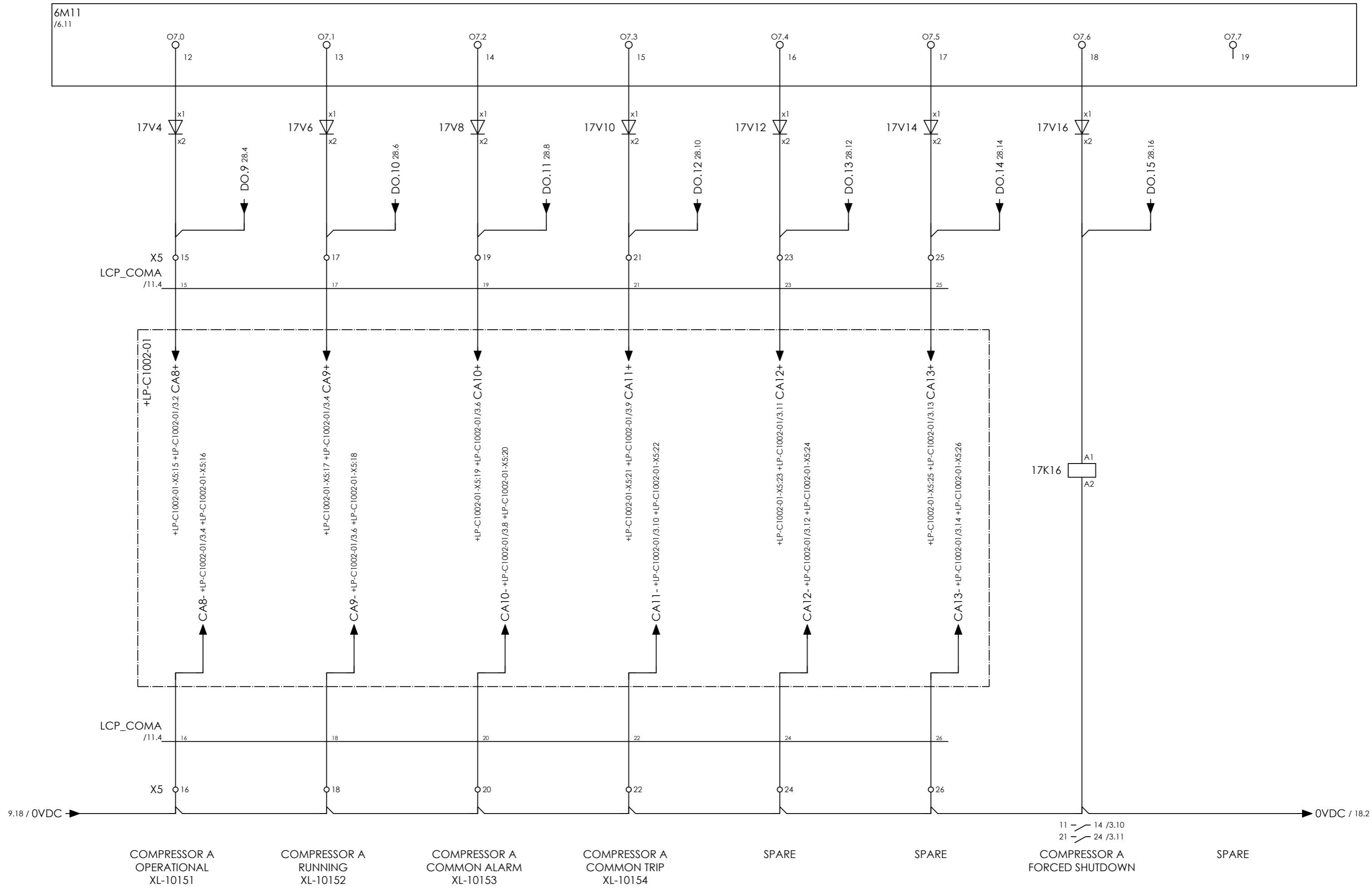
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LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	27	



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



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	
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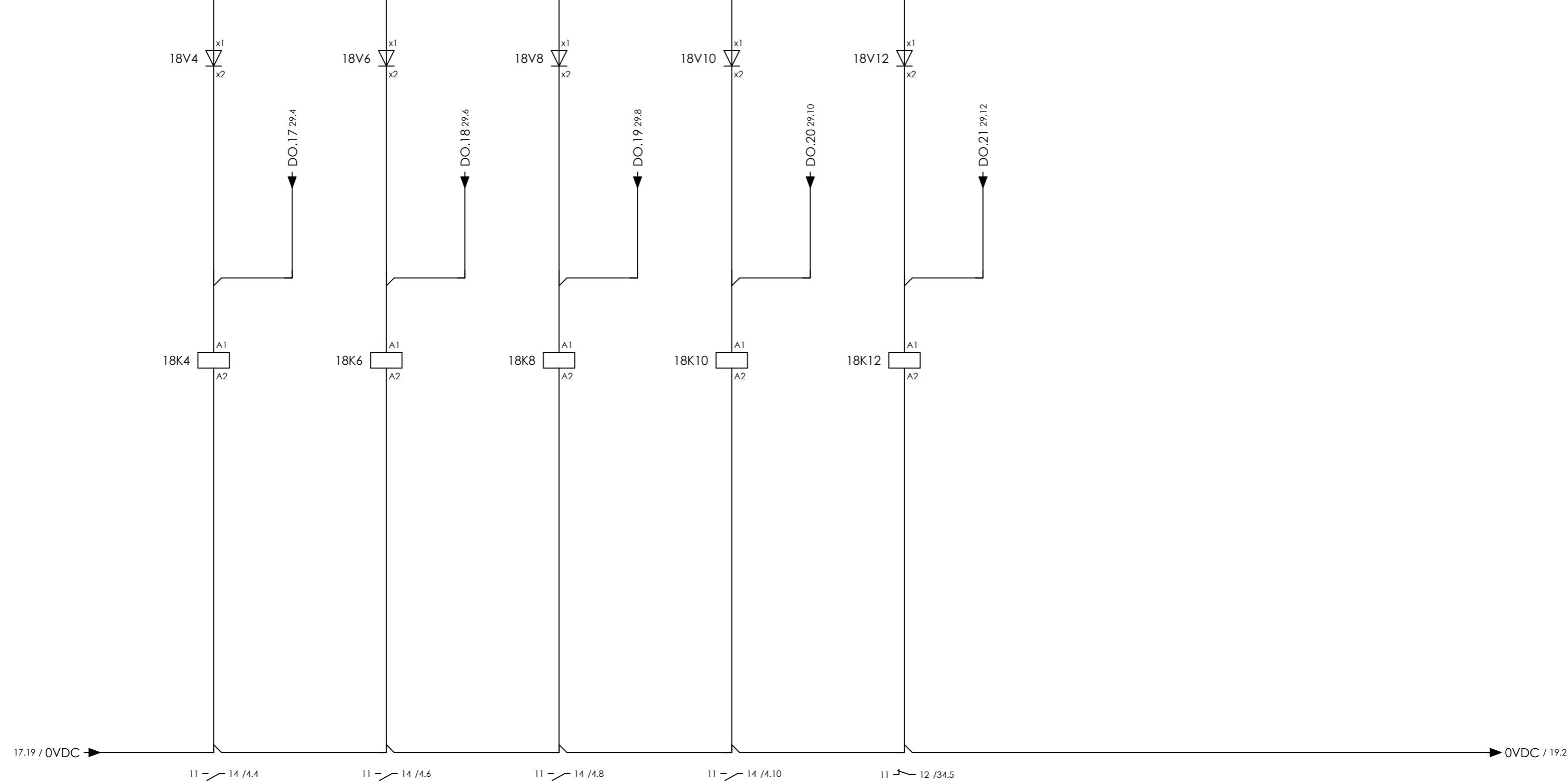
11 - 14 /3.10  
21 - 24 /3.11

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	

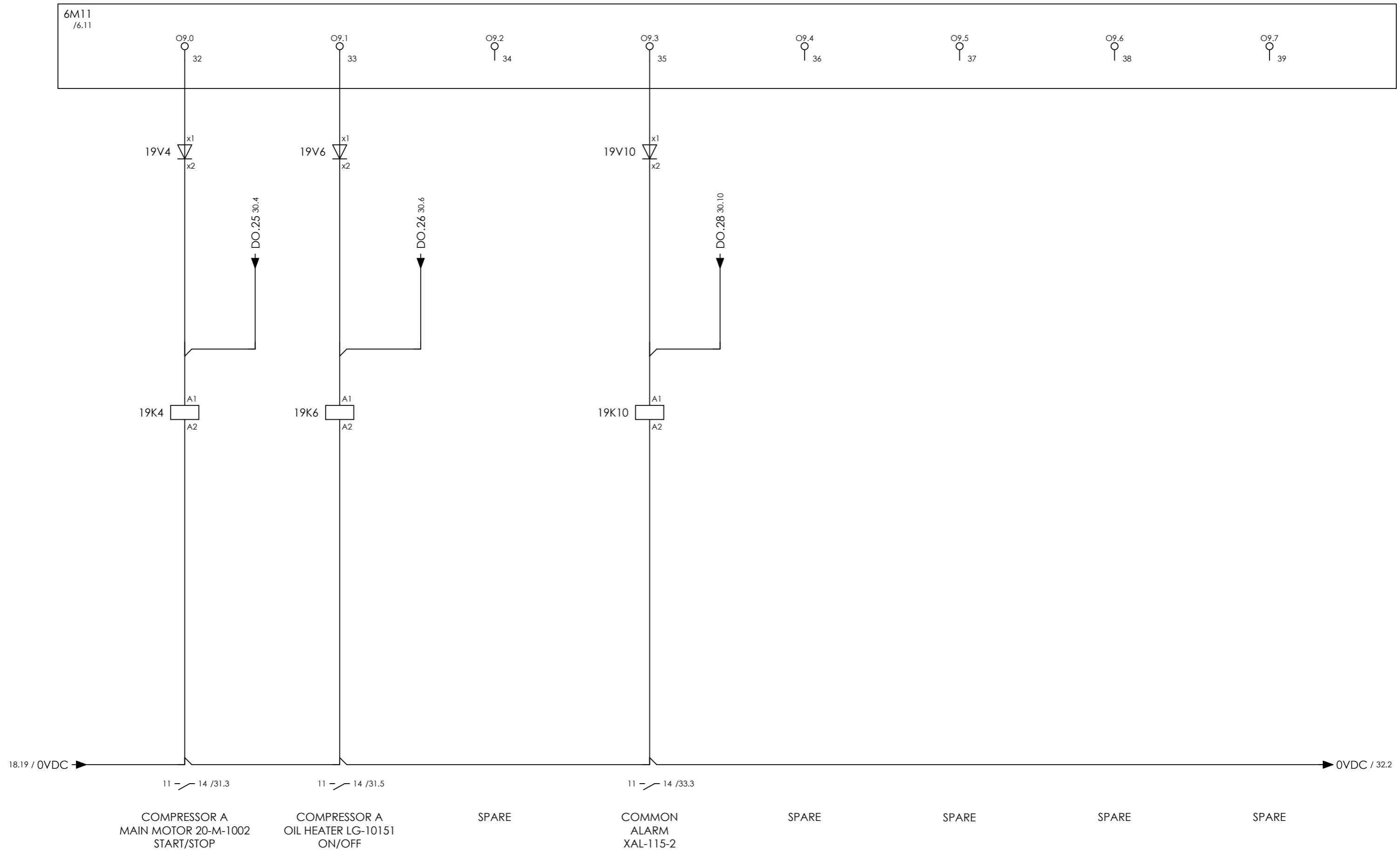
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LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	29	



11 - 14 / 4.4	11 - 14 / 4.6	11 - 14 / 4.8	11 - 14 / 4.10	11 - 12 / 34.5			
COMPRESSOR A SOLENOID VALVE XY-001A	COMPRESSOR A SOLENOID VALVE XY-002A	SPARE	SPARE	PID CONTROL ACTIVE	SPARE	SPARE	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	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

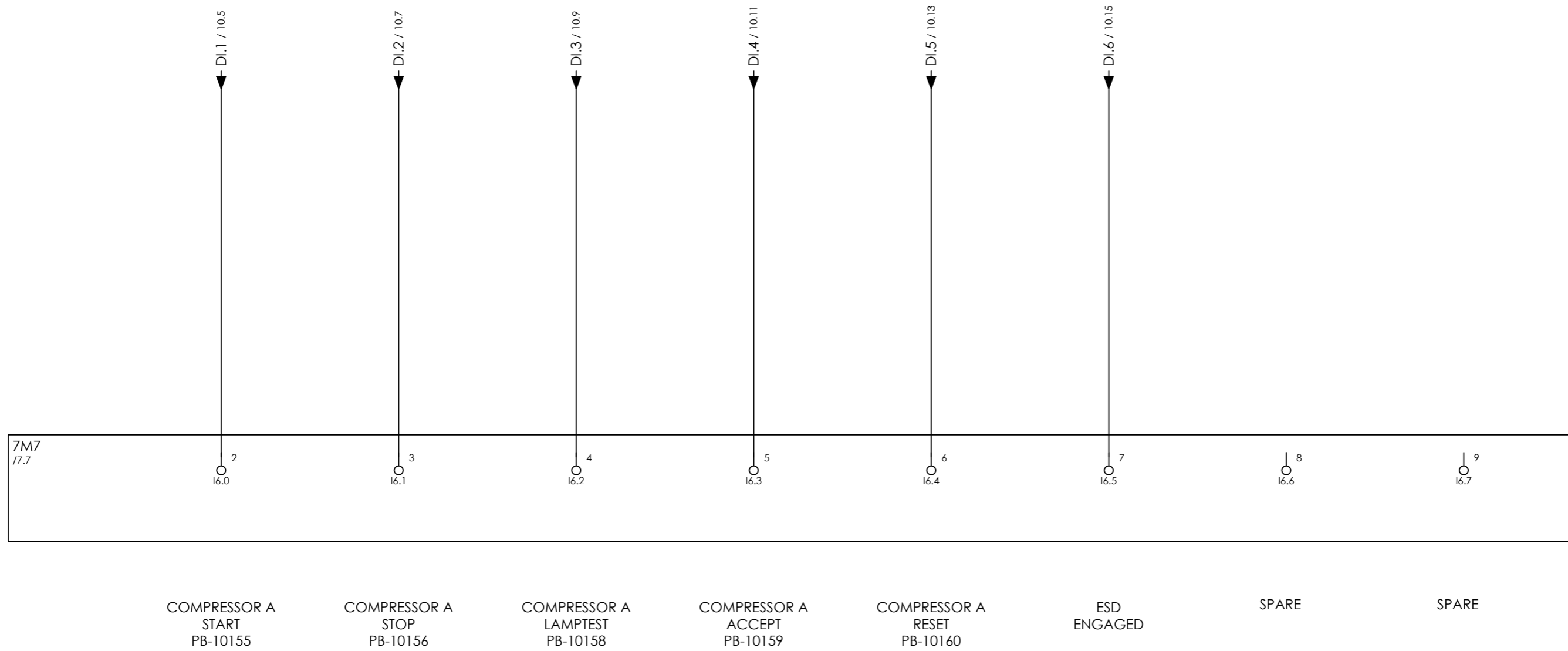
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AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	31

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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	
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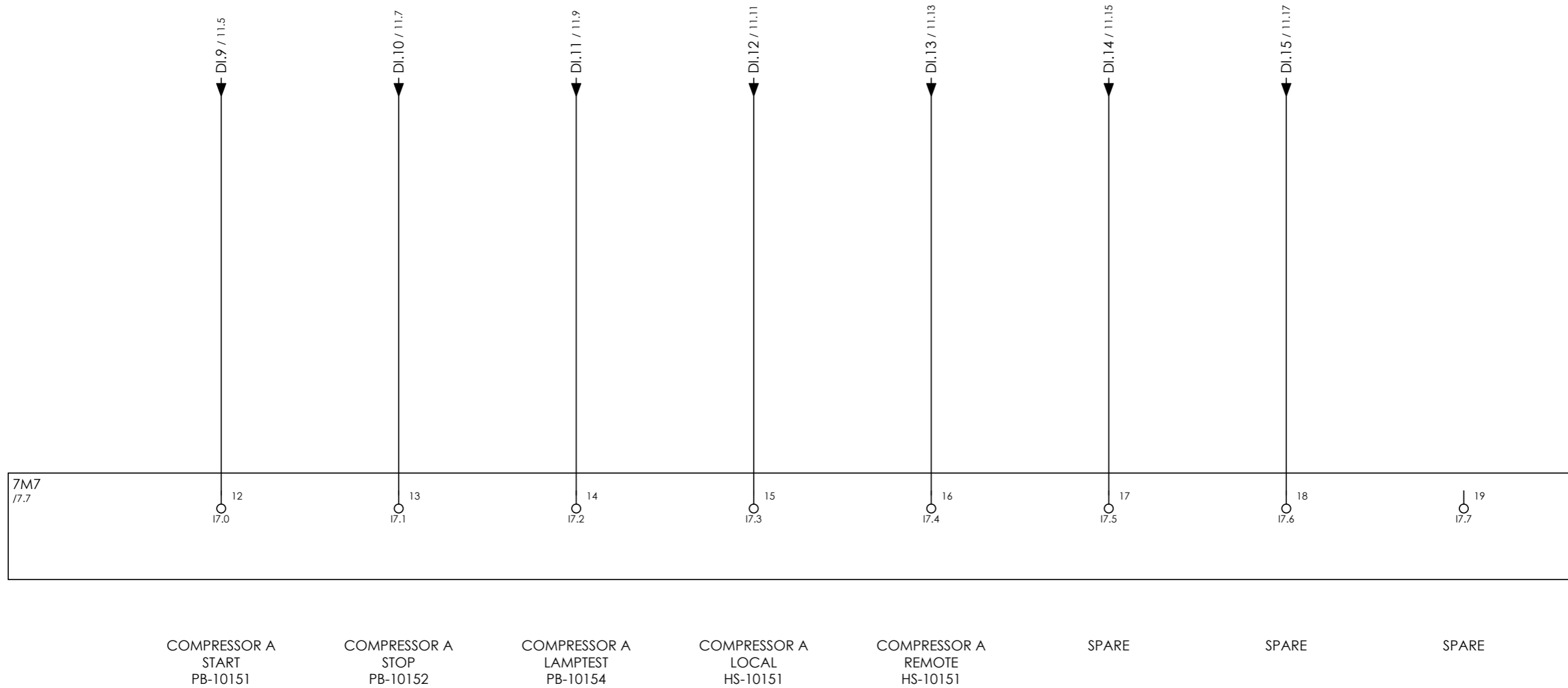


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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
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REVISION	02
TOTAL PAGE AMOUNT	33

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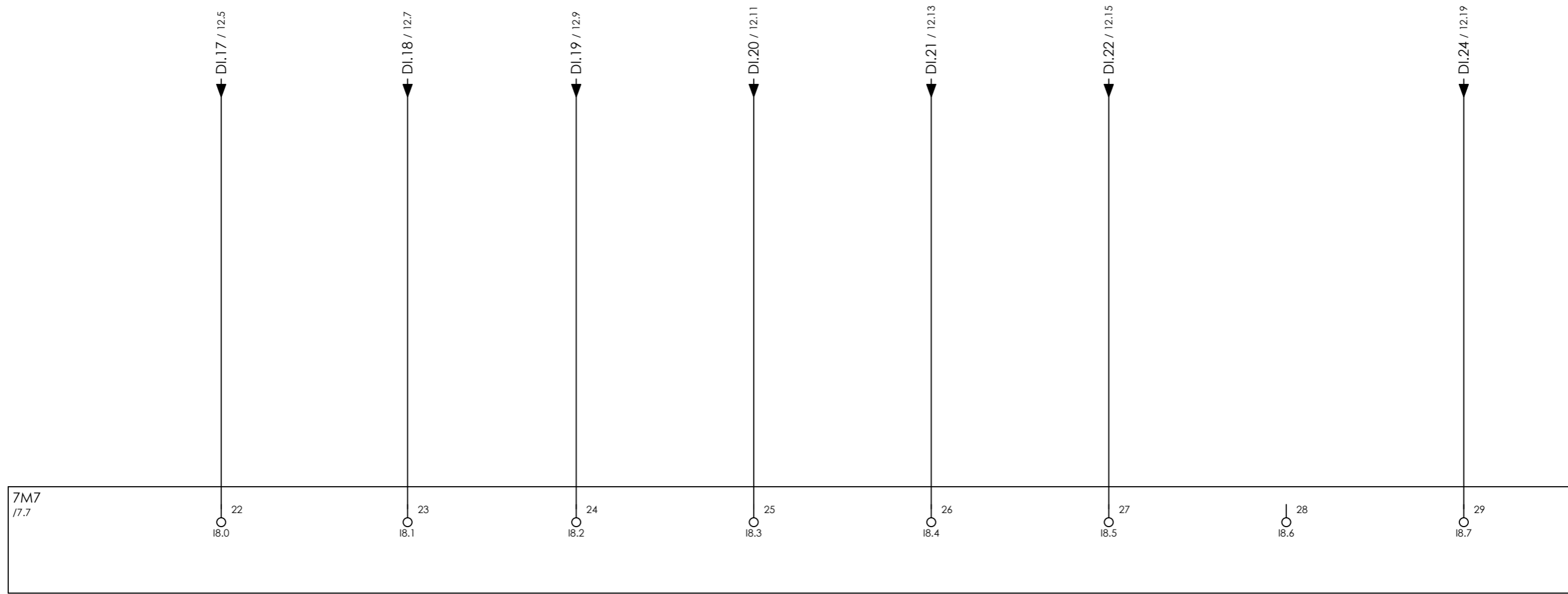


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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	34

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+ 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

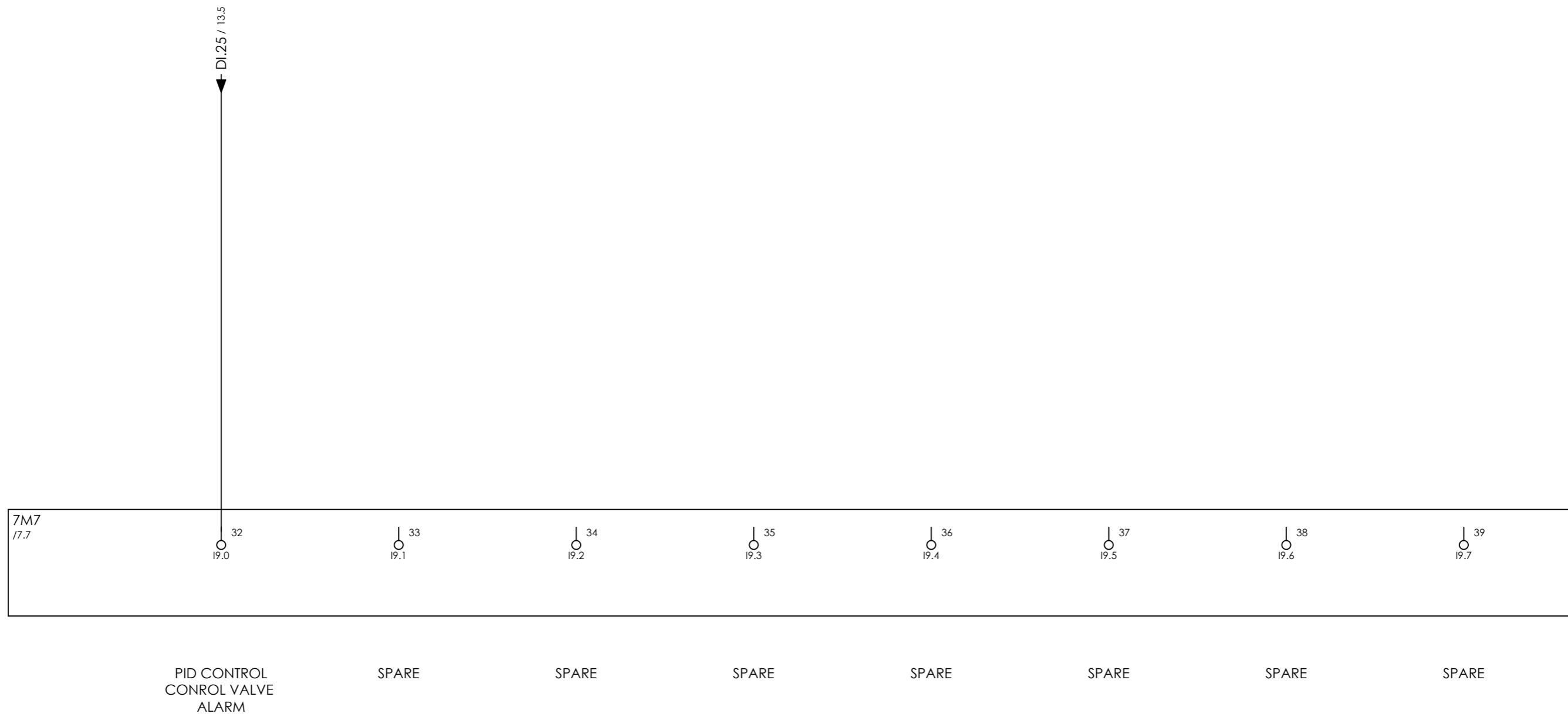


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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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LAST MODIFICATION DATE	07/12/2021
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REVISION	02
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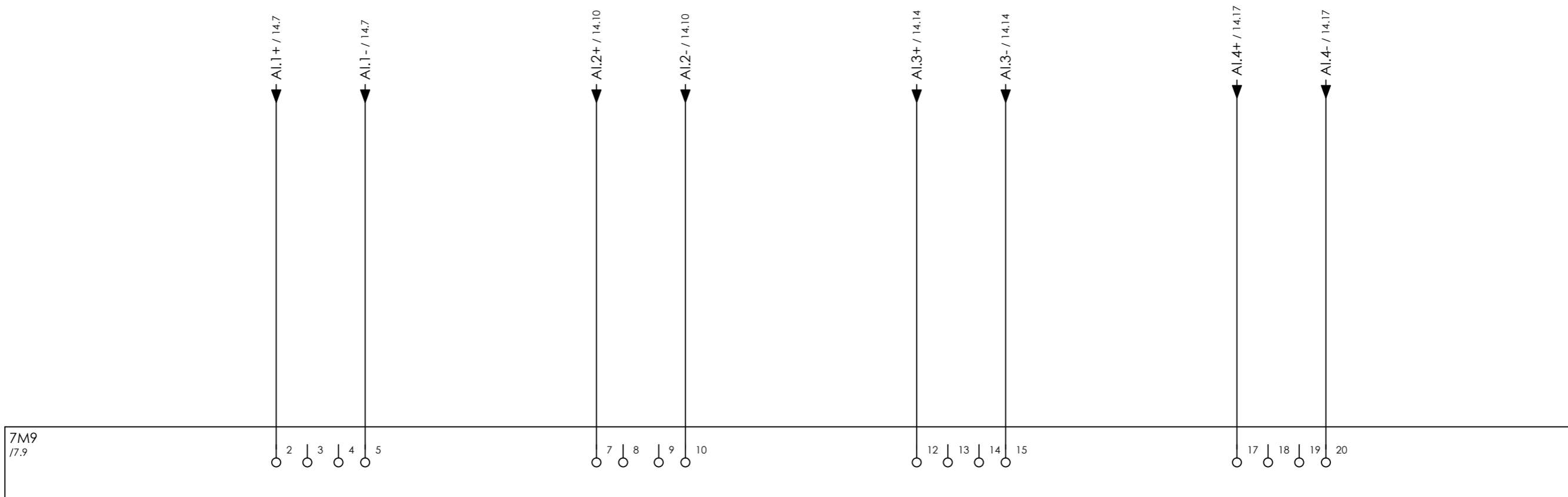


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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

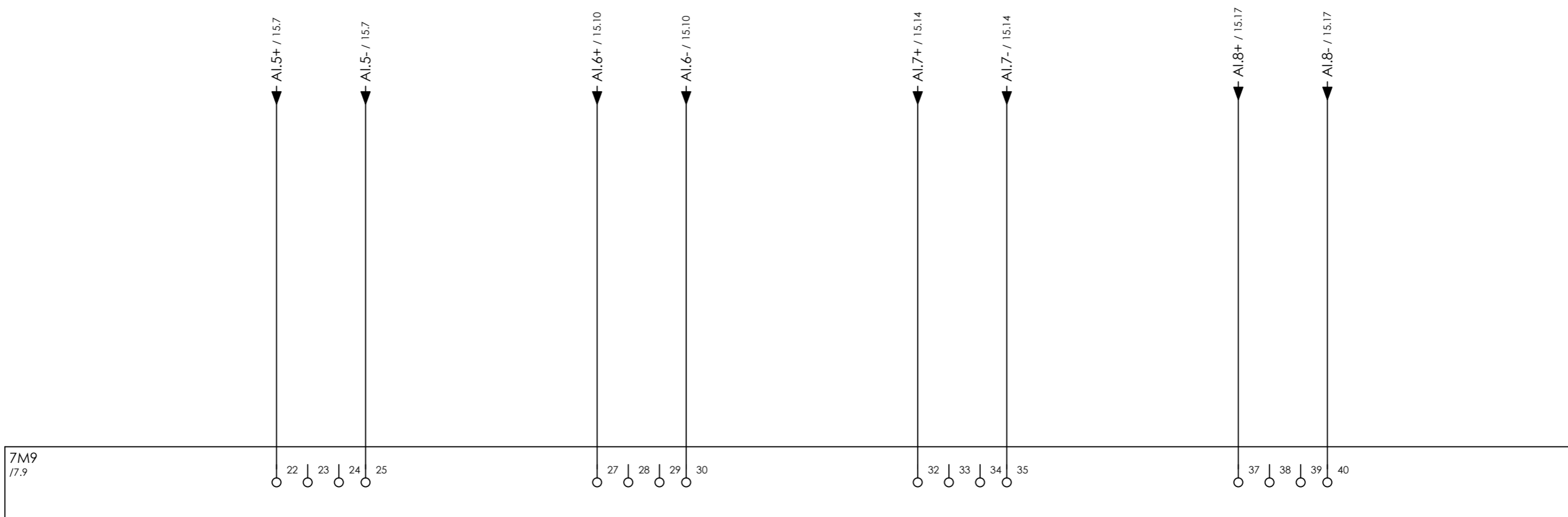


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
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REVISION	02
TOTAL PAGE AMOUNT	37

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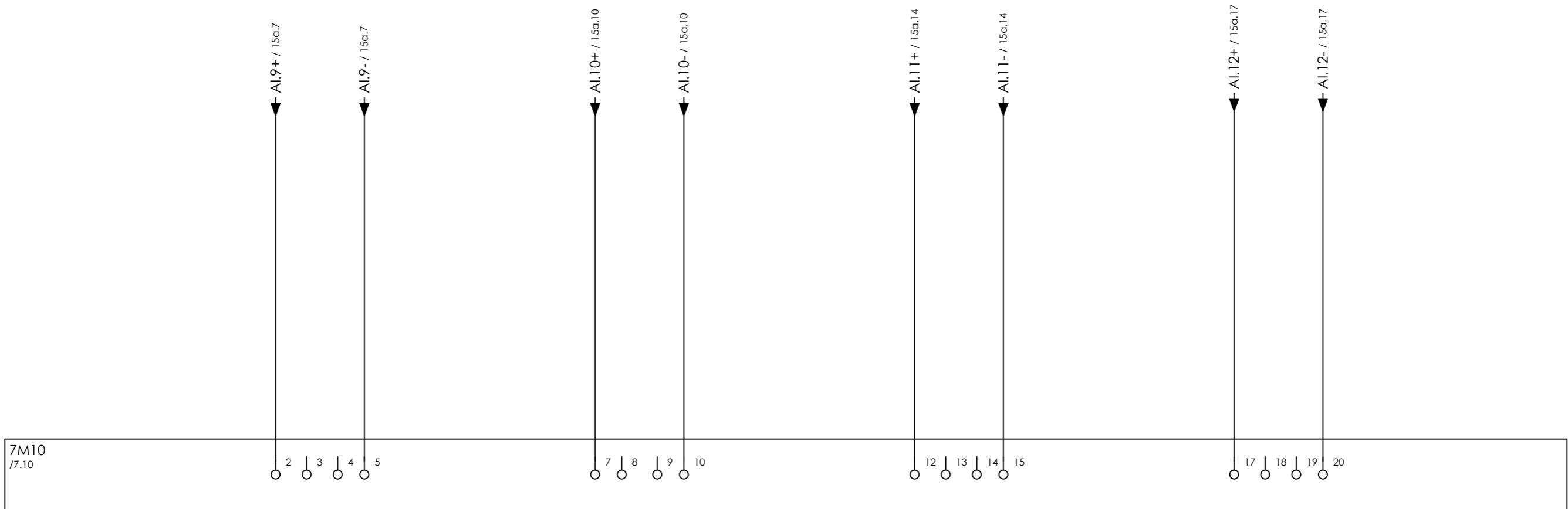


CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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SUBJECT ANALOG INPUTS II  
 ADAPTED TO P&ID REVISION 02  
 CLIENT Bushehr Petrochemical Company (BUPC)  
 CLIENT REF. Bushehr MEG Plant Project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

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 LAST MODIFICATION DATE 07/12/2021  
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 REVISION 02  
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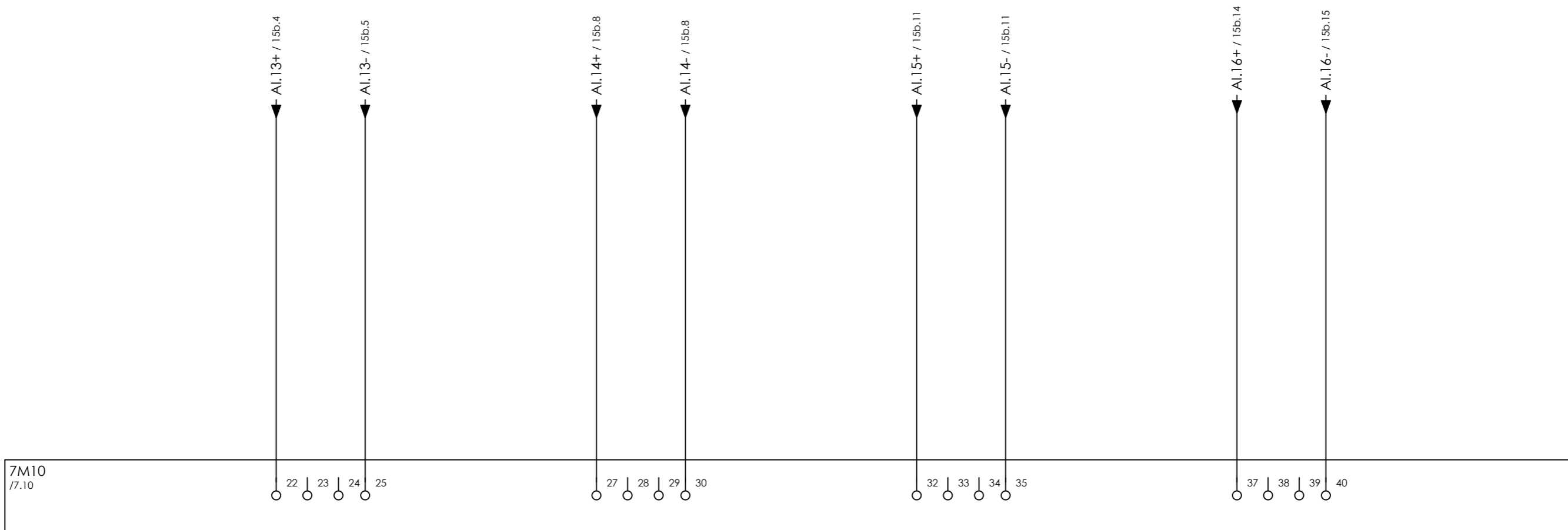


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

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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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
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TOTAL PAGE AMOUNT	39

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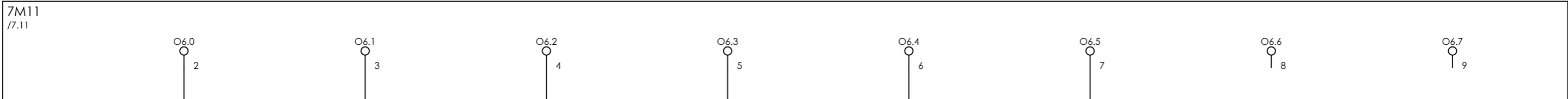


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT ANALOG INPUTS II	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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



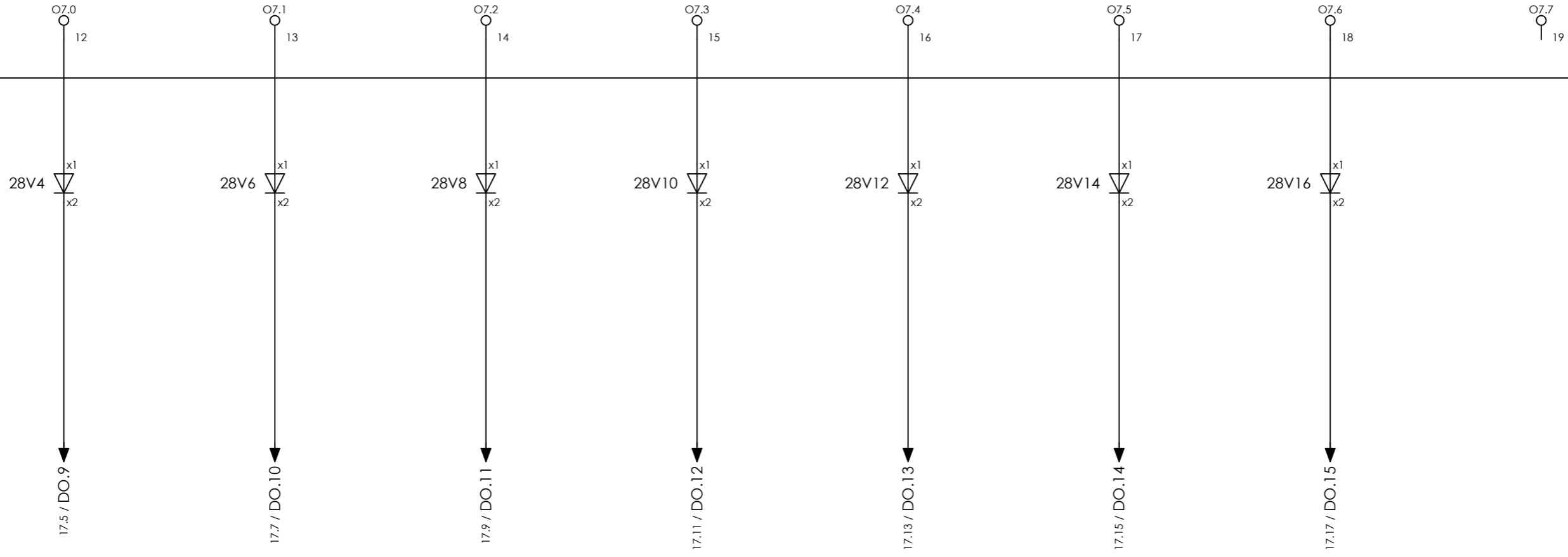
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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT 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	41

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+ UCP-C1002-01
CURRENT PAGE

7M11  
/7.11



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
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

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+ 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



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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CHECKED BY	RBE
LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	43

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

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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

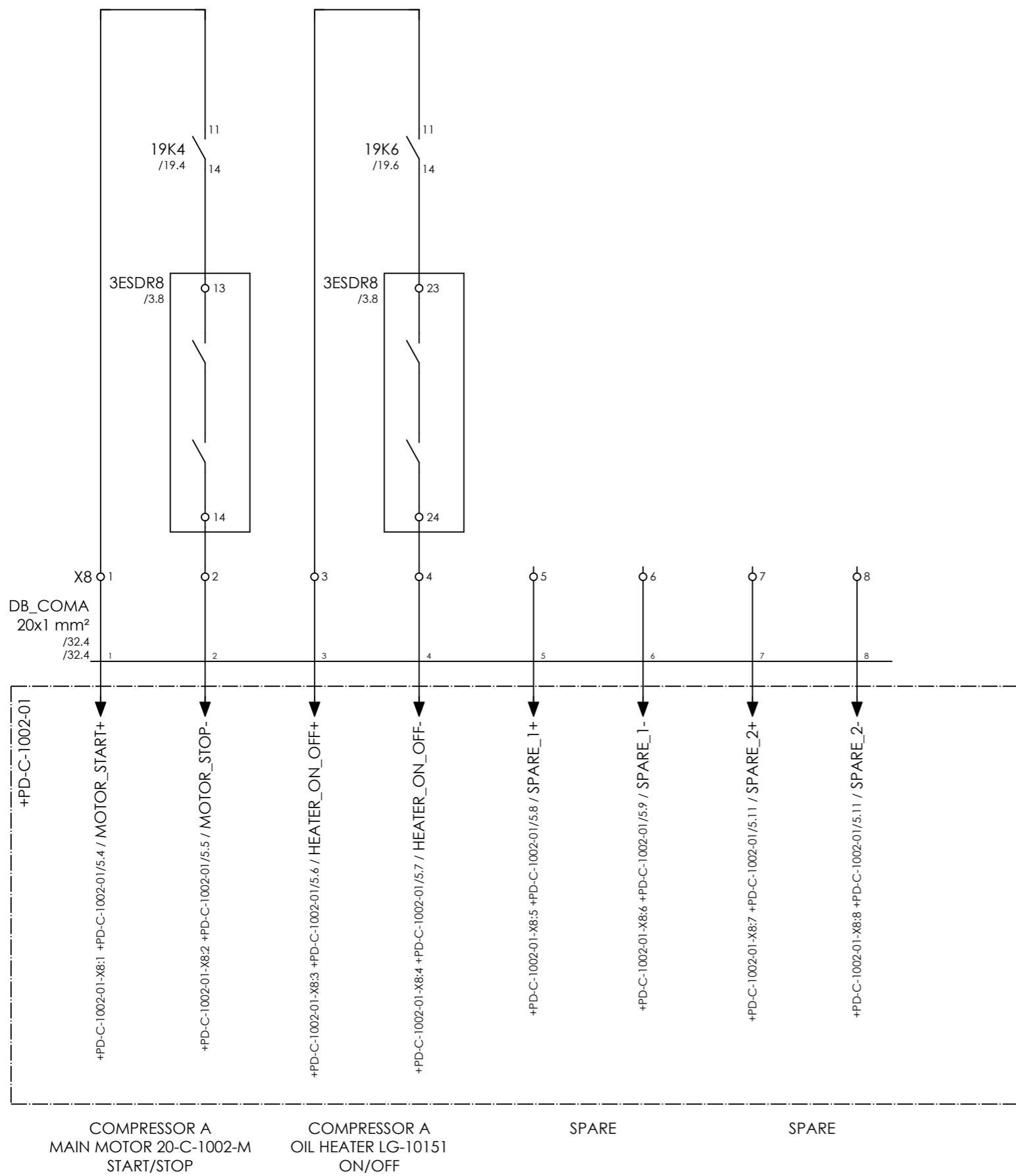
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SPARE



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		DRAWN BY	htahter	= 20-C-1002
DIGITAL OUTPUTS II		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	44	



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

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF

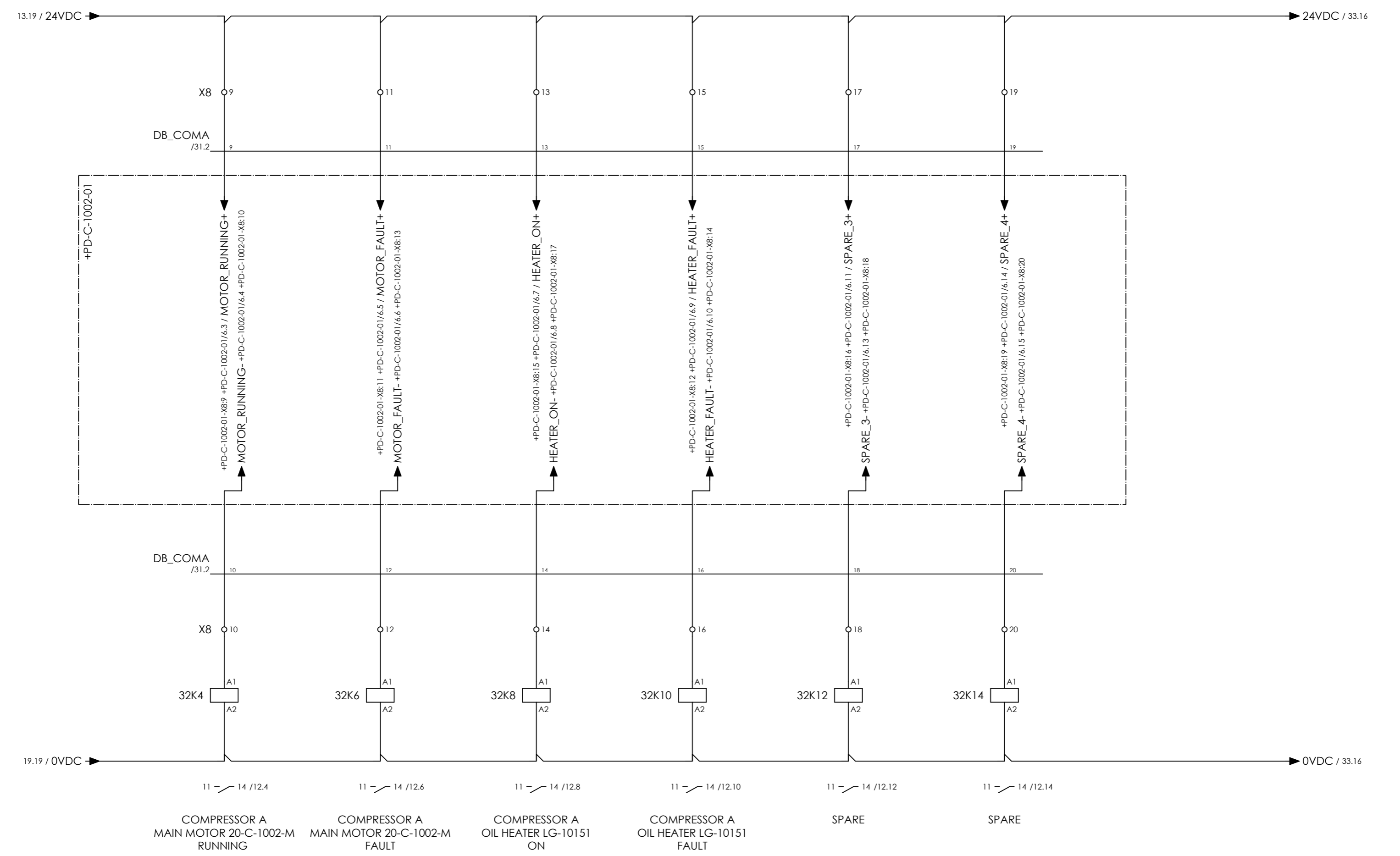
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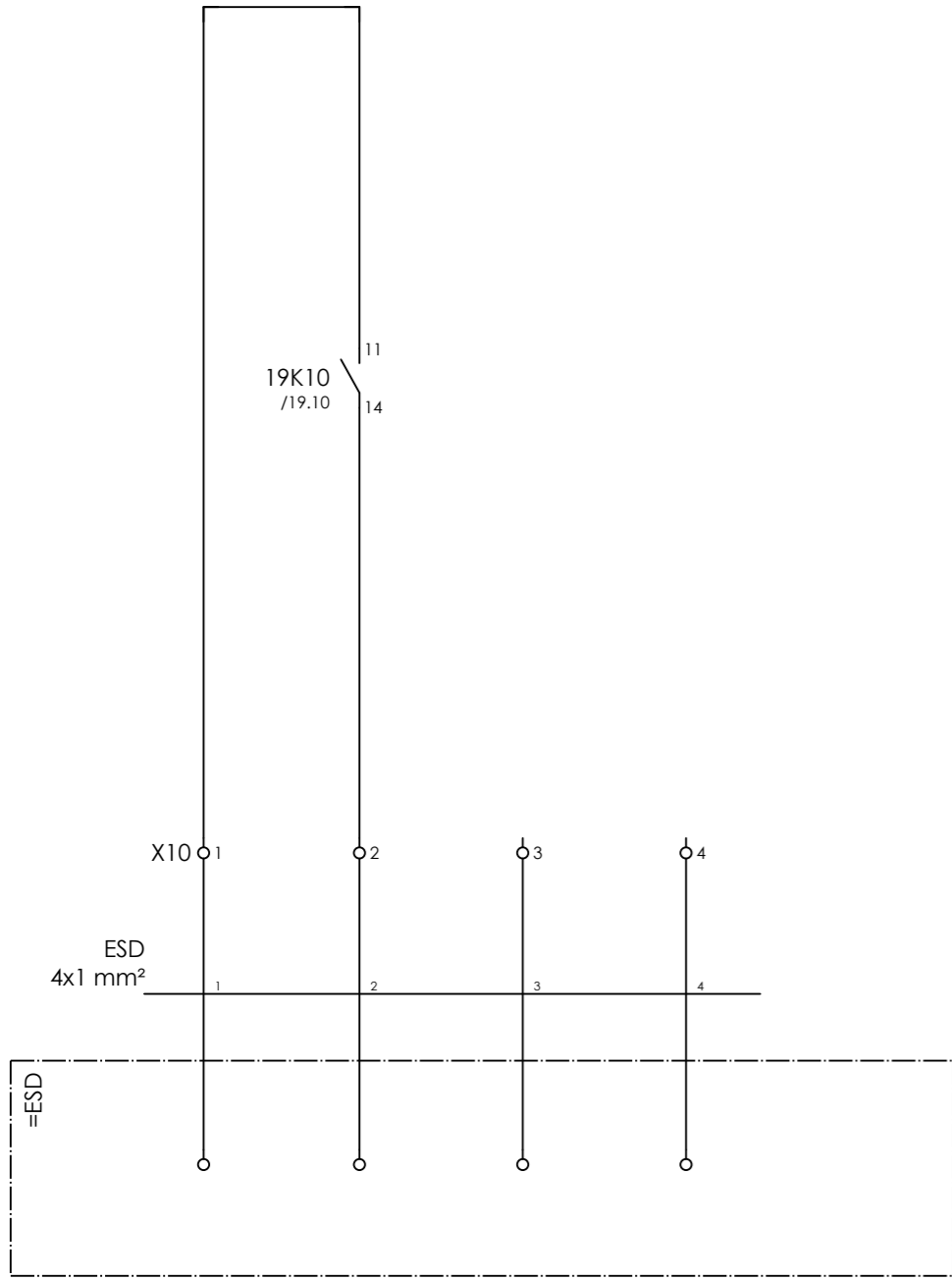


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT		DRAWN BY		htaher		= 20-C-1002	
SIGNALS TO DISTRIBUTION BOARD		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			
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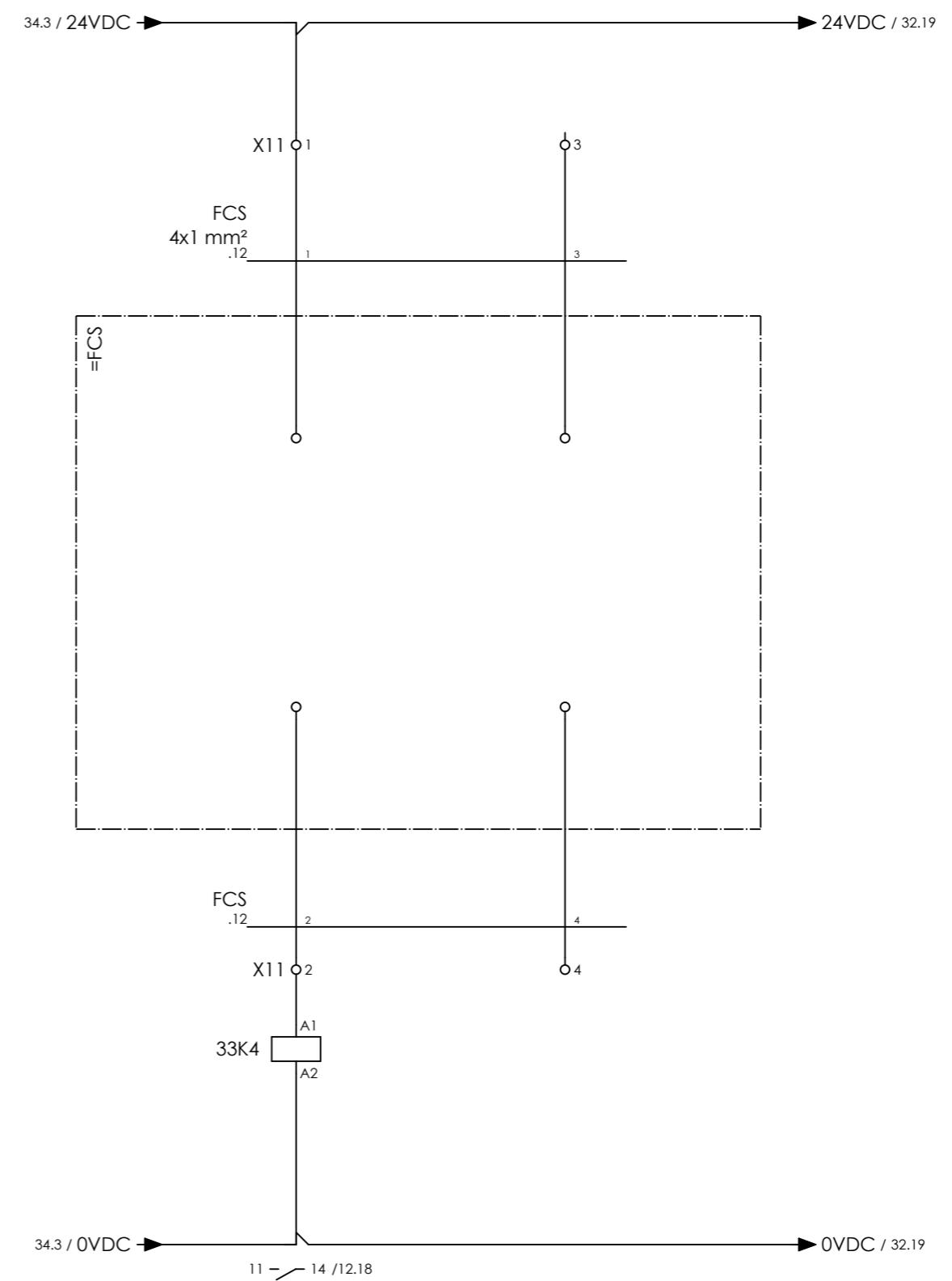


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	SIGNALS FROM DISTRIBUTION BOARD		CHECKED BY	RBE	+ UCP-C1002-01
EQUIPMENT LOCATION	Iran, Onshore	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, 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	
	AIRPACK REF.	17811-05A		TOTAL PAGE AMOUNT	46	



COMMON ALARM  
XAL-108-2  
TO CUSTOMER  
ESD

SPARE



TIME SYNCHRONIZATION  
XCS-115  
FROM  
CUSTOMER FCS

SPARE

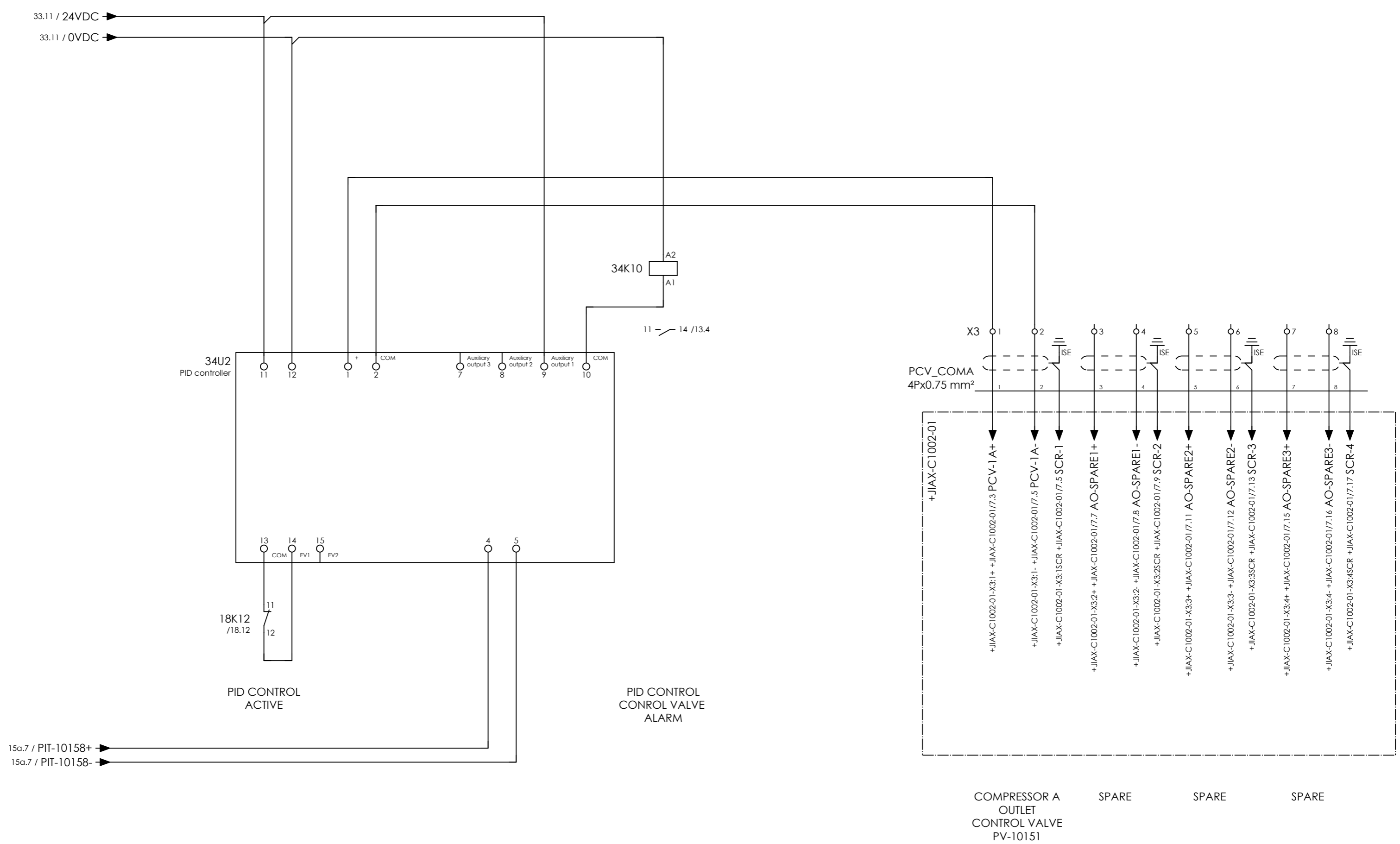


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT SIGNALS TO ESD AND FROM FCS	
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CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr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

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AIRPACK DWG NO.	17811-05
REVISION	02
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= 20-C-1002
+ UCP-C1002-01
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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	CLIENT	LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
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		AIRPACK REF.	Bushehr MEG Plant Project	REVISION	02	
			17811-05A	TOTAL PAGE AMOUNT	48	

COMPRESSOR A OUTLET CONTROL VALVE PV-10151	SPARE	SPARE	SPARE
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# Terminal diagram

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

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

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



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

SUBJECT Terminal diagram =20-C-1002+UCP-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  
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 + UCP-C1002-01  
 CURRENT PAGE

# Terminal diagram

Cable name		Strip =20-C-1002+UCP-C1002-01-X3 ANALOGUE OUTPUTS								Cable name	
Terminal	Connection point	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Connection point	
1	1	.	+JIAX-C 1002-01-X3	1	1	.	-34U2	1			
2	2	.	+JIAX-C 1002-01-X3	2	2	.	-34U2	2			
3	3	.	+JIAX-C 1002-01-X3	3	3	.					
4	4	.	+JIAX-C 1002-01-X3	4	4	.					
5	5	.	+JIAX-C 1002-01-X3	5	5	.					
6	6	.	+JIAX-C 1002-01-X3	6	6	.					
7	7	.	+JIAX-C 1002-01-X3	7	7	.					
8	8	.	+JIAX-C 1002-01-X3	8	8	.					



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
 EQUIPMENT NO. 20-C-1002  
 EQUIPMENT LOCATION Iran, Onshore  
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# 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  
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# 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				
2	2	+PD-C-1002-01-X8	2	2	.	-3ESDR8	14	2	2				
3	3	+PD-C-1002-01-X8	3	3	.	-19U6	14	3	3				
4	4	+PD-C-1002-01-X8	4	4	.	-3ESDR8	24	4	4				
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				
10	10	+PD-C-1002-01-X8	10	10	.	-32K4	A1	10	10				
11		+PD-C-1002-01-X8		11	.		11	11	11				
12	13	+PD-C-1002-01-X8	13	12	.	-32K6	A1	12	12				
13		+PD-C-1002-01-X8		13	.		15	13	13				
14	17	+PD-C-1002-01-X8	17	14	.	-32K8	A1	14	14				
15		+PD-C-1002-01-X8		15	.		12	15	15				
16	14	+PD-C-1002-01-X8	14	16	.	-32K10	A1	16	16				
17		+PD-C-1002-01-X8		17	.		16	17	17				
18	18	+PD-C-1002-01-X8	18	18	.	-32K12	A1	18	18				
19	1	+PD-C-1002-01-X8	1	19	.	-X11	19	19	19				
20	20	+PD-C-1002-01-X8	20	20	.	-32K14	A1	20	20				



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 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-X10 SIGNALS TO ESD				Cable name																			
Terminal	Connection point	Jumper	Target designation	Connection point	Target designation																				
1	11	.	-19K10	11																					
2	14	.	-19K10	14																					
3		.																							
4		.																							



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+UCP-C1002-01-X10
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

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



TERMINAL STRIP DEFINITION

JUNCTION BOX  
JNDX-C1002-01

X1 = CONNECTION SOLENOIDS

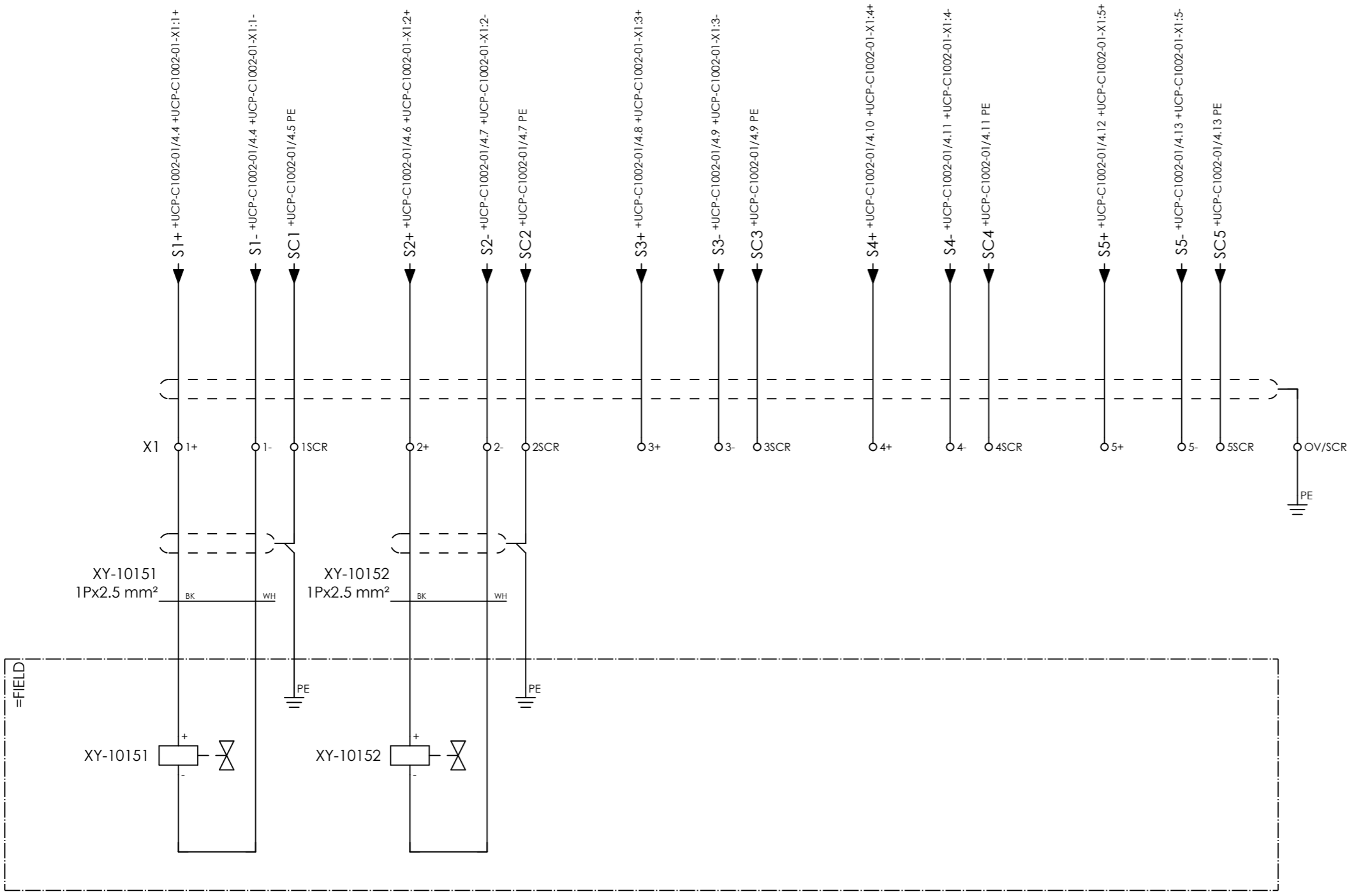


CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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REVISION	
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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.

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RBE  
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+ JNDX-C1002-01  
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# Terminal diagram

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



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CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT	Terminal diagram =20-C-1002+JNDX-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

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

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+ JNDX-C1002-01
CURRENT PAGE

# JUNCTION BOX JIAX-C1002-01

## TERMINAL STRIP DEFINITION

X2 = CONNECTION TRANSMITTERS  
X3 = CONNECTION CONTROL VALVE

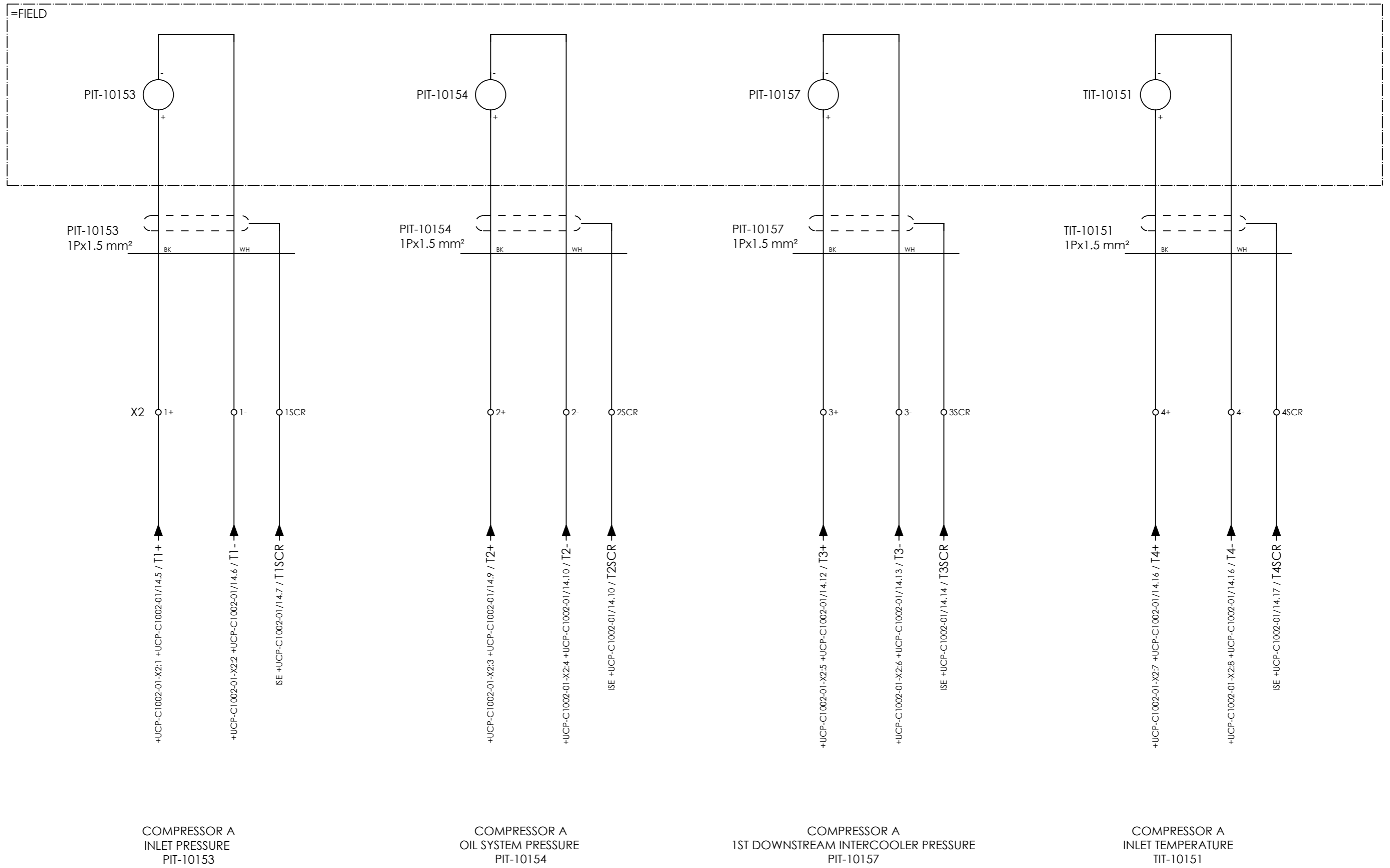


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT TERMINAL STRIP DEFINITION	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

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

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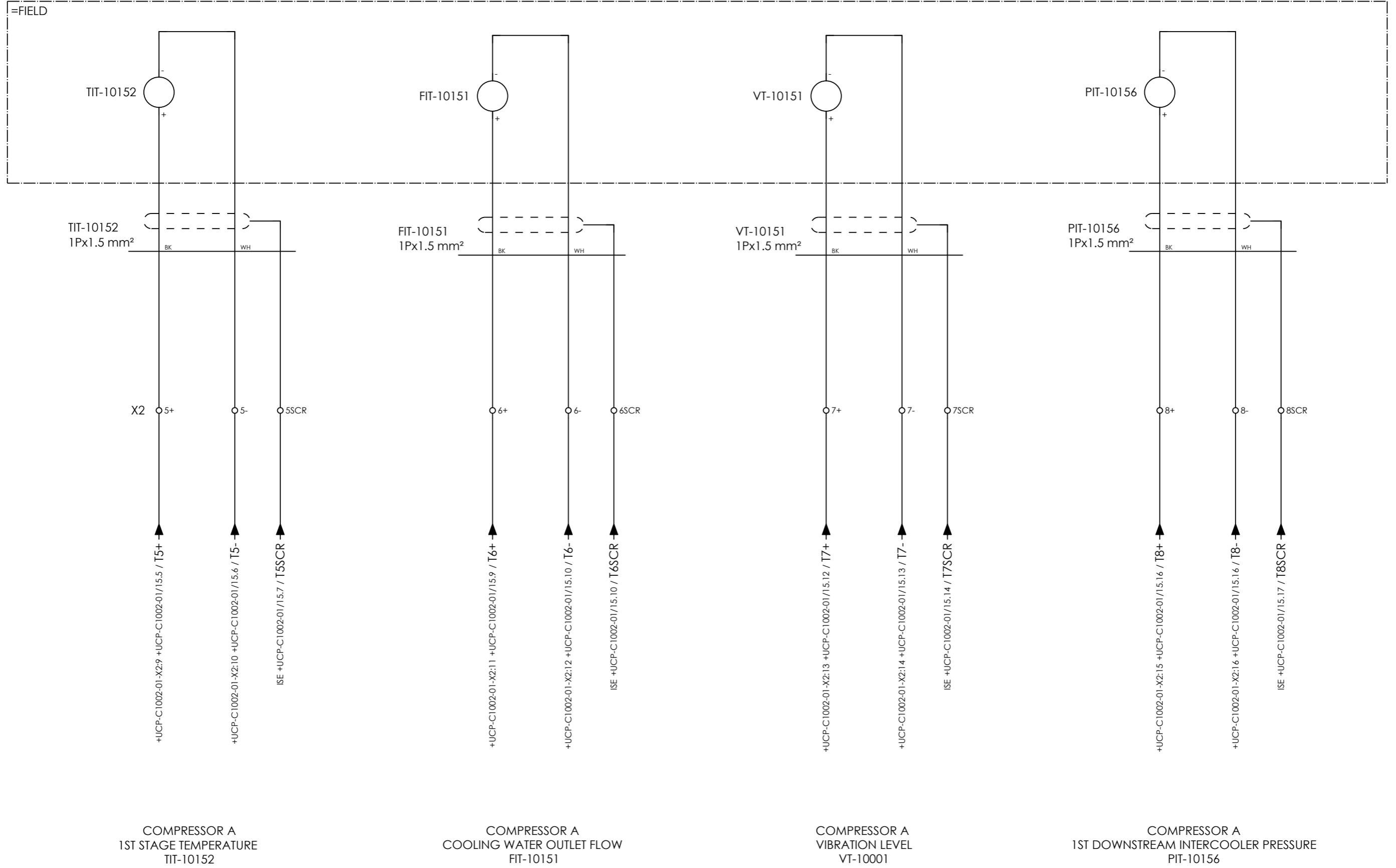


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
ADAPTED TO P&ID REVISION	
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project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

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LAST MODIFICATION DATE	07/12/2021
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REVISION	
PAGE NUMBER	95

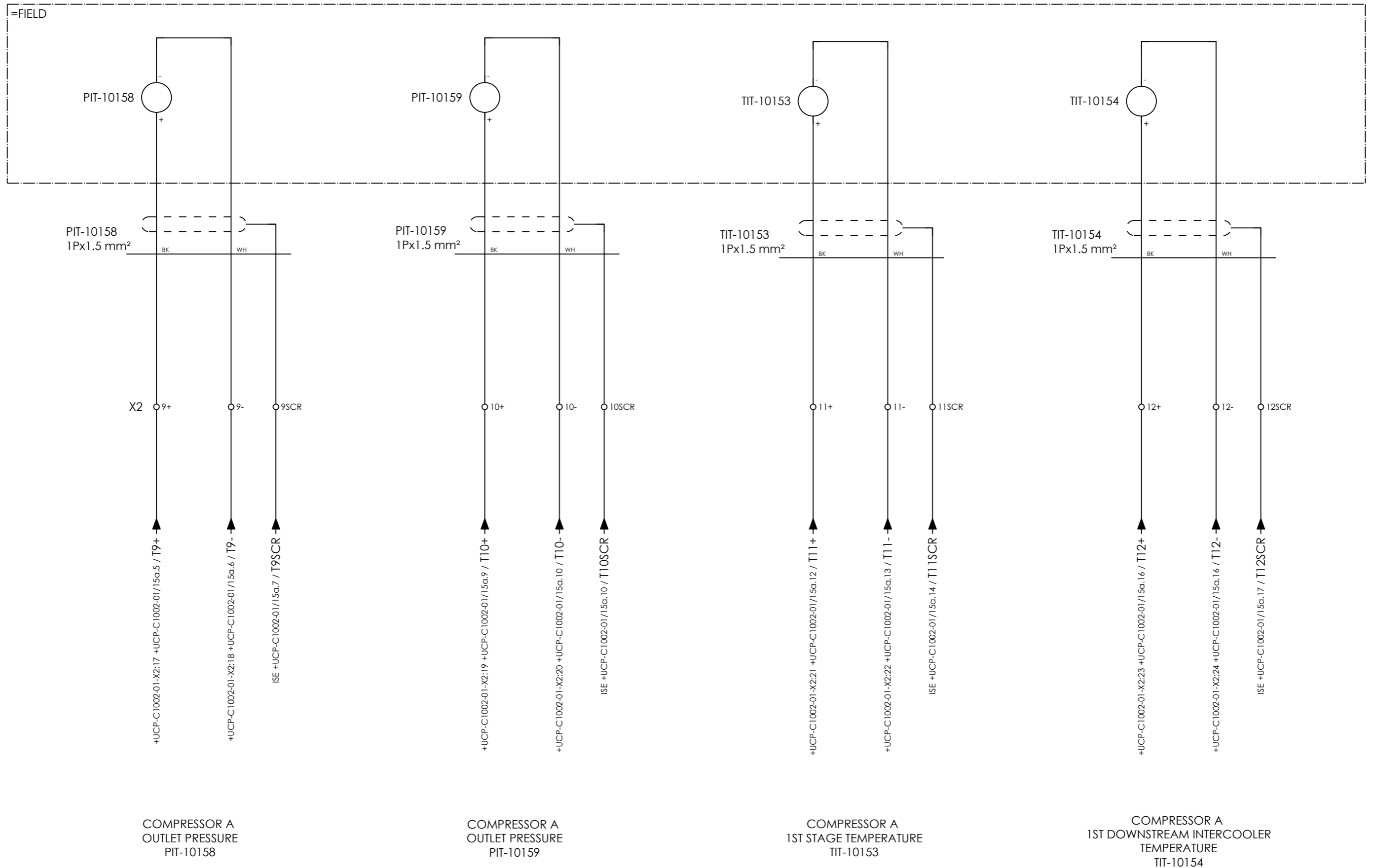
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+ JIAX-C1002-01
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CLIENT DWG NO.	
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore
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SUBJECT CONNECTION TRANSMITTERS	
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CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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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

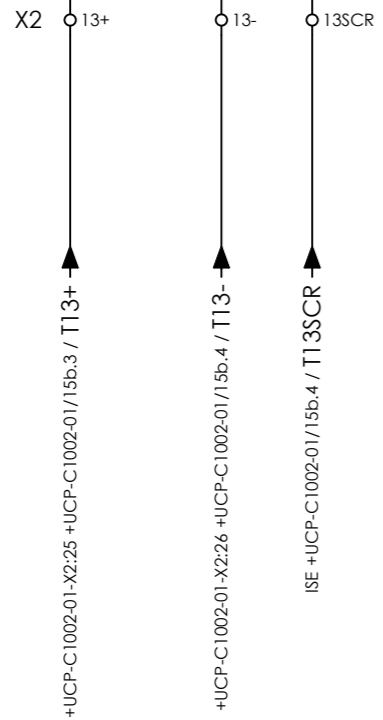
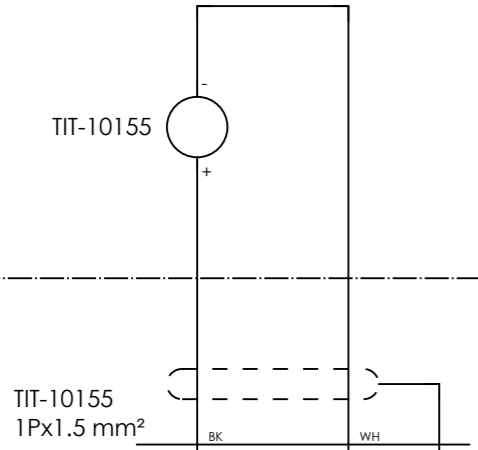


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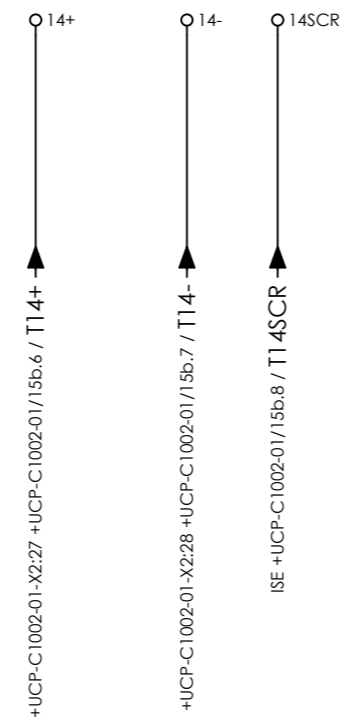
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CLIENT REF.	Bushehr MEG Plant Project
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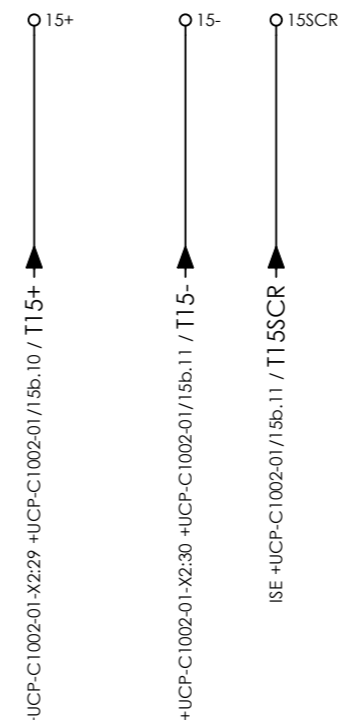
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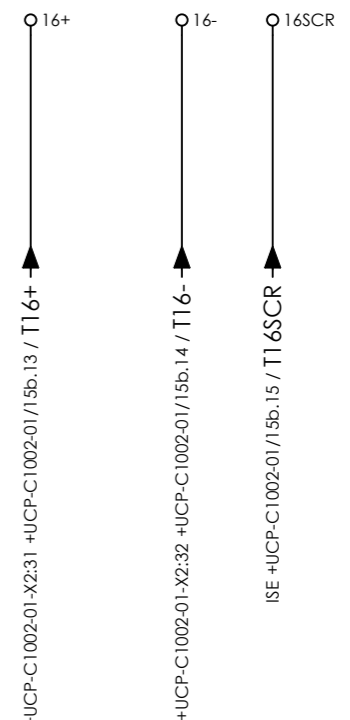
COMPRESSOR A  
2ND UPSTREAM INTERCOOLER  
TEMPERATURE  
TIT-10155



SPARE



SPARE



SPARE

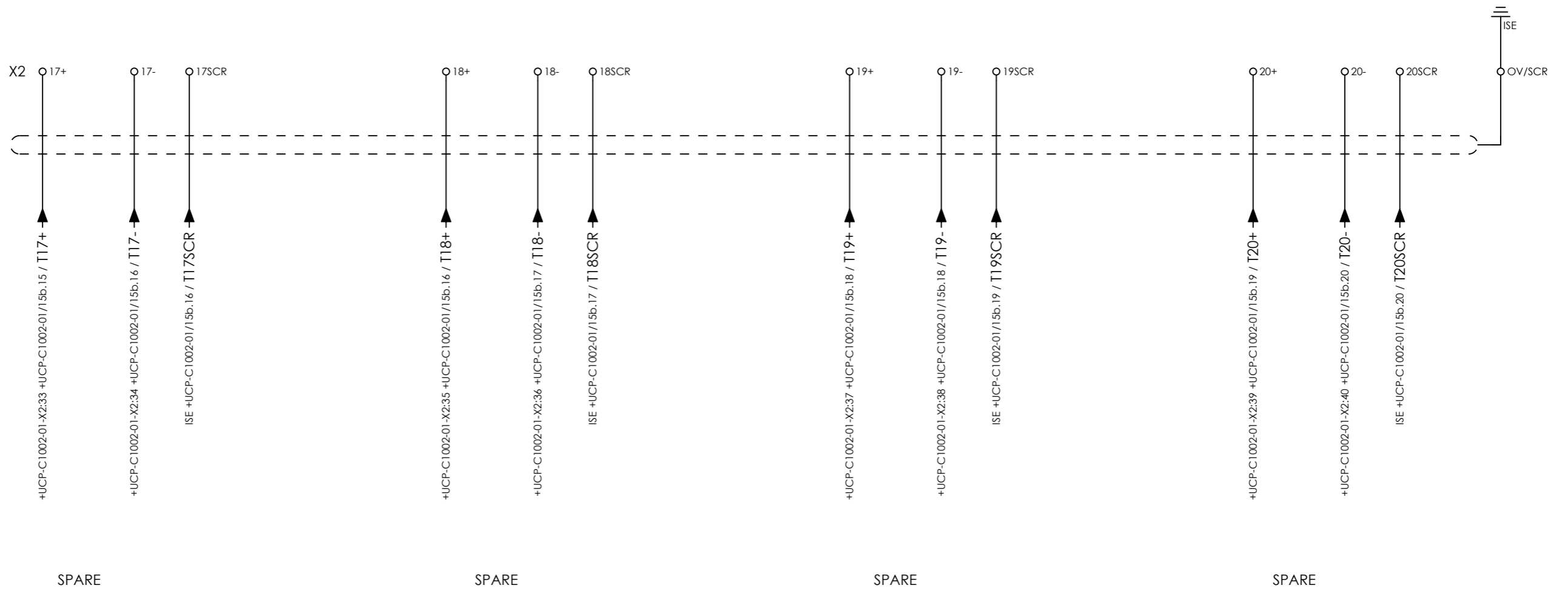


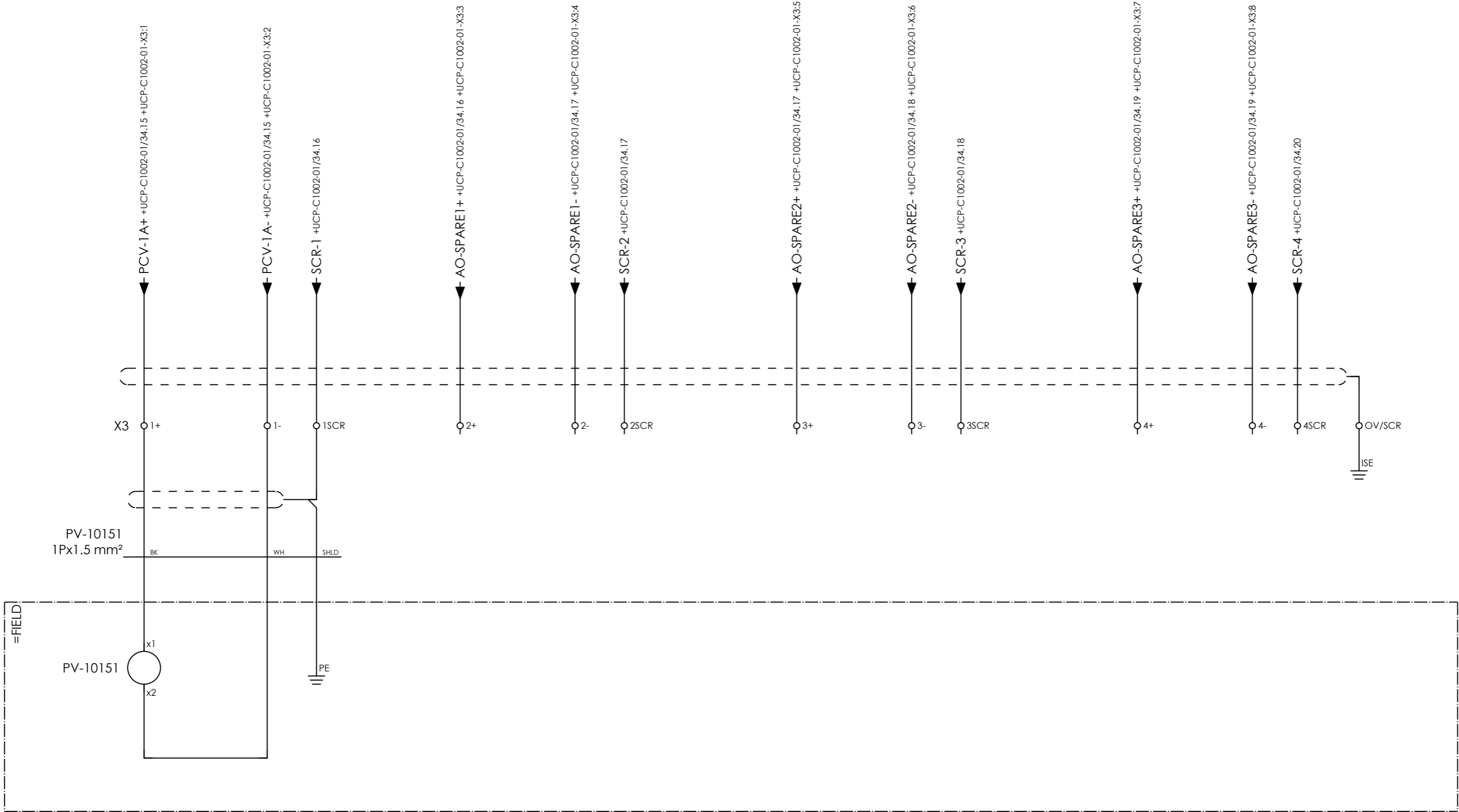
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COMPRESSOR A  
OUTLET  
CONTROL VALVE  
PV-10151

SPARE

SPARE

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SUBJECT  
CONNECTION CONTROL VALVE  
ADAPTED TO P&ID REVISION  
CLIENT  
CLIENT REF.  
AIRPACK REF.

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# Terminal diagram

Cable name		Strip =20-C-1002+JIAX-C1002-01-X2 CONNECTION TRANSMITTERS									
Cable name		Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
-TIT-10152	1Px1.5 mm²										
-TIT-10151	1Px1.5 mm²										
-PIT-10157	1Px1.5 mm²			BK							
-PIT-10154	1Px1.5 mm²			BK							
-PIT-10153	1Px1.5 mm²	BK	WH								
		=FIELD-PIT-10153	+	1+	.	+UCP-C1002-01-X2	1				
		=FIELD-PIT-10153	-	1-	.	+UCP-C1002-01-X2	2				
				1SCR							
		=FIELD-PIT-10154	+	2+	.	+UCP-C1002-01-X2	3				
		=FIELD-PIT-10154	-	2-	.	+UCP-C1002-01-X2	4				
				2SCR							
		=FIELD-PIT-10157	+	3+	.	+UCP-C1002-01-X2	5				
		=FIELD-PIT-10157	-	3-	.	+UCP-C1002-01-X2	6				
				3SCR							
		=FIELD-TIT-10151	+	4+	.	+UCP-C1002-01-X2	7				
		=FIELD-TIT-10151	-	4-	.	+UCP-C1002-01-X2	8				
				4SCR							
		=FIELD-TIT-10152	+	5+	.	+UCP-C1002-01-X2	9				
		=FIELD-TIT-10152	-	5-	.	+UCP-C1002-01-X2	10				
				5SCR							



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 AIRPACK REF. 17811-05A

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 + JIAX-C1002-01  
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# Terminal diagram

Cable name		Strip =20-C-1002+JIAX-C1002-01-X2 CONNECTION TRANSMITTERS										Cable name									
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper		
=FIELD-FT-10151	+	6+	.	+UCP-C1002-01-X2	11	6+	.	+UCP-C1002-01-X2	11												
=FIELD-FT-10151	-	6-	.	+UCP-C1002-01-X2	12	6-	.	+UCP-C1002-01-X2	12												
		6SCR				6SCR															
=FIELD-VT-10151	+	7+	.	+UCP-C1002-01-X2	13	7+	.	+UCP-C1002-01-X2	13												
=FIELD-VT-10151	-	7-	.	+UCP-C1002-01-X2	14	7-	.	+UCP-C1002-01-X2	14												
		7SCR				7SCR															
=FIELD-PIT-10156	+	8+		+UCP-C1002-01-X2	15	8+		+UCP-C1002-01-X2	15												
=FIELD-PIT-10156	-	8-		+UCP-C1002-01-X2	16	8-		+UCP-C1002-01-X2	16												
		8SCR				8SCR															
=FIELD-PIT-10158	+	9+		+UCP-C1002-01-X2	17	9+		+UCP-C1002-01-X2	17												
=FIELD-PIT-10158	-	9-		+UCP-C1002-01-X2	18	9-		+UCP-C1002-01-X2	18												
		9SCR				9SCR															
=FIELD-PIT-10159	+	10+		+UCP-C1002-01-X2	19	10+		+UCP-C1002-01-X2	19												
=FIELD-PIT-10159	-	10-		+UCP-C1002-01-X2	20	10-		+UCP-C1002-01-X2	20												
		10SCR				10SCR															
-PIT-10159																					
-PIT-10158																					
-PIT-10156						BK															
-VT-10151						BK															
-FT-10151						BK															



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 AIRPACK REF. 17811-05A

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= 20-C-1002  
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# Terminal diagram

Cable name		Strip =20-C-1002+JIAX-C1002-01-X2 CONNECTION TRANSMITTERS										Cable name	
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
=FIELD-TIT-10153	+	11+	.	+UCP-C1002-01-X2	21	11+	.	+UCP-C1002-01-X2	21	11+	.	+UCP-C1002-01-X2	21
=FIELD-TIT-10153	-	11-	.	+UCP-C1002-01-X2	22	11-	.	+UCP-C1002-01-X2	22	11-	.	+UCP-C1002-01-X2	22
		11SCR				11SCR				11SCR			
=FIELD-TIT-10154	+	12+	.	+UCP-C1002-01-X2	23	12+	.	+UCP-C1002-01-X2	23	12+	.	+UCP-C1002-01-X2	23
=FIELD-TIT-10154	-	12-	.	+UCP-C1002-01-X2	24	12-	.	+UCP-C1002-01-X2	24	12-	.	+UCP-C1002-01-X2	24
		12SCR				12SCR				12SCR			
=FIELD-TIT-10155	+	13+		+UCP-C1002-01-X2	25	13+		+UCP-C1002-01-X2	25	13+		+UCP-C1002-01-X2	25
=FIELD-TIT-10155	-	13-		+UCP-C1002-01-X2	26	13-		+UCP-C1002-01-X2	26	13-		+UCP-C1002-01-X2	26
		13SCR				13SCR				13SCR			
		14+		+UCP-C1002-01-X2	27	14+		+UCP-C1002-01-X2	27	14+		+UCP-C1002-01-X2	27
		14-		+UCP-C1002-01-X2	28	14-		+UCP-C1002-01-X2	28	14-		+UCP-C1002-01-X2	28
		14SCR				14SCR				14SCR			
		15+		+UCP-C1002-01-X2	29	15+		+UCP-C1002-01-X2	29	15+		+UCP-C1002-01-X2	29
		15-		+UCP-C1002-01-X2	30	15-		+UCP-C1002-01-X2	30	15-		+UCP-C1002-01-X2	30
		15SCR				15SCR				15SCR			
		16+		+UCP-C1002-01-X2	31	16+		+UCP-C1002-01-X2	31	16+		+UCP-C1002-01-X2	31
		16-		+UCP-C1002-01-X2	32	16-		+UCP-C1002-01-X2	32	16-		+UCP-C1002-01-X2	32
		16SCR				16SCR				16SCR			
		17+		+UCP-C1002-01-X2	33	17+		+UCP-C1002-01-X2	33	17+		+UCP-C1002-01-X2	33
		17-		+UCP-C1002-01-X2	34	17-		+UCP-C1002-01-X2	34	17-		+UCP-C1002-01-X2	34
		17SCR				17SCR				17SCR			
		18+		+UCP-C1002-01-X2	35	18+		+UCP-C1002-01-X2	35	18+		+UCP-C1002-01-X2	35
		18-		+UCP-C1002-01-X2	36	18-		+UCP-C1002-01-X2	36	18-		+UCP-C1002-01-X2	36
		18SCR				18SCR				18SCR			
		19+		+UCP-C1002-01-X2	37	19+		+UCP-C1002-01-X2	37	19+		+UCP-C1002-01-X2	37
		19-		+UCP-C1002-01-X2	38	19-		+UCP-C1002-01-X2	38	19-		+UCP-C1002-01-X2	38
		19SCR				19SCR				19SCR			
		20+		+UCP-C1002-01-X2	39	20+		+UCP-C1002-01-X2	39	20+		+UCP-C1002-01-X2	39
		20-		+UCP-C1002-01-X2	40	20-		+UCP-C1002-01-X2	40	20-		+UCP-C1002-01-X2	40
		20SCR				20SCR				20SCR			
		OV/SCR			ISE	OV/SCR			ISE	OV/SCR			ISE



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TERMINAL STRIP DEFINITION

LOCAL CONTROL PANEL  
LP-C1002-01

X5 = CONNECTION PUSHBUTTONS AND LAMPS  
X9 = CONNECTION ESD BUTTON

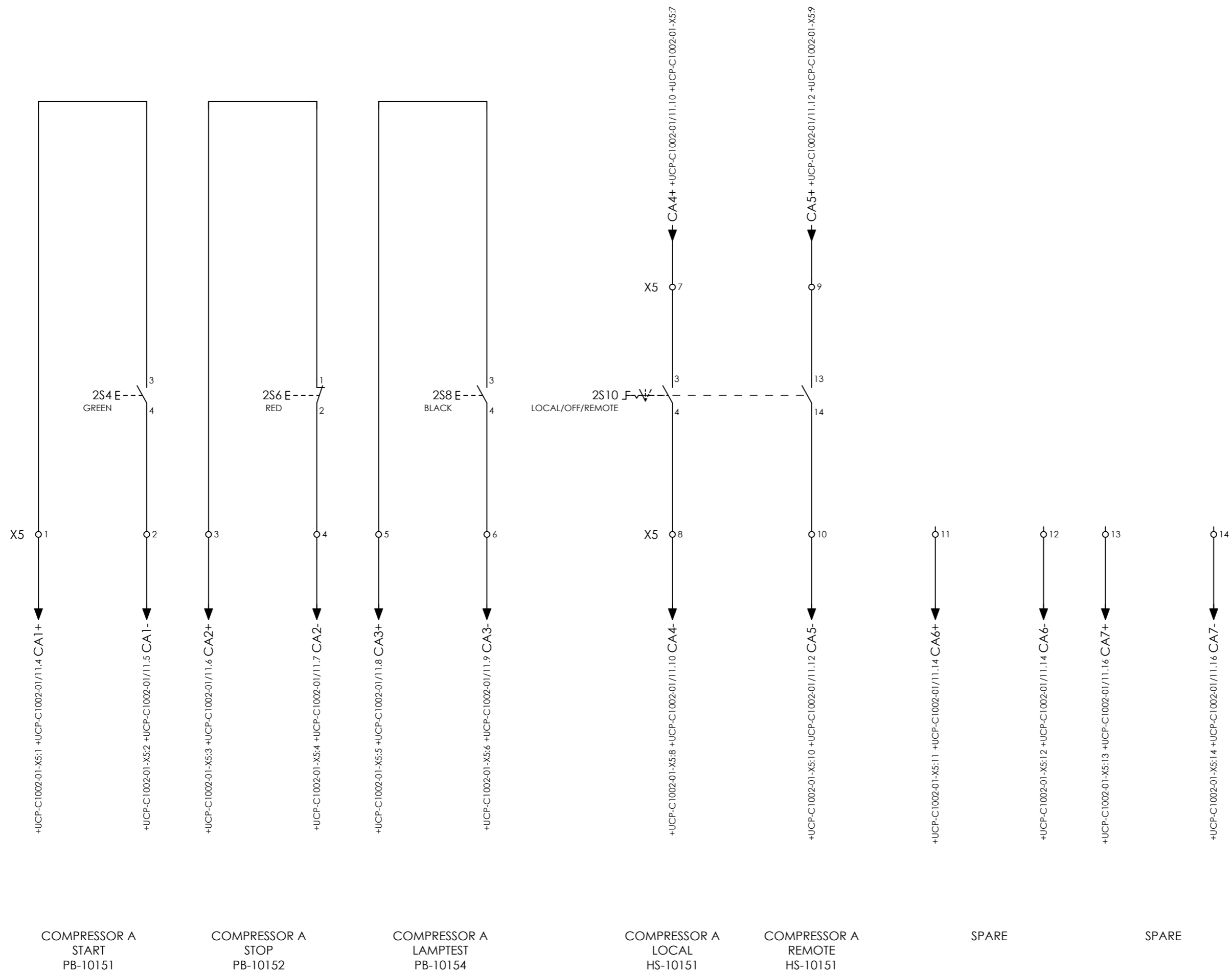


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CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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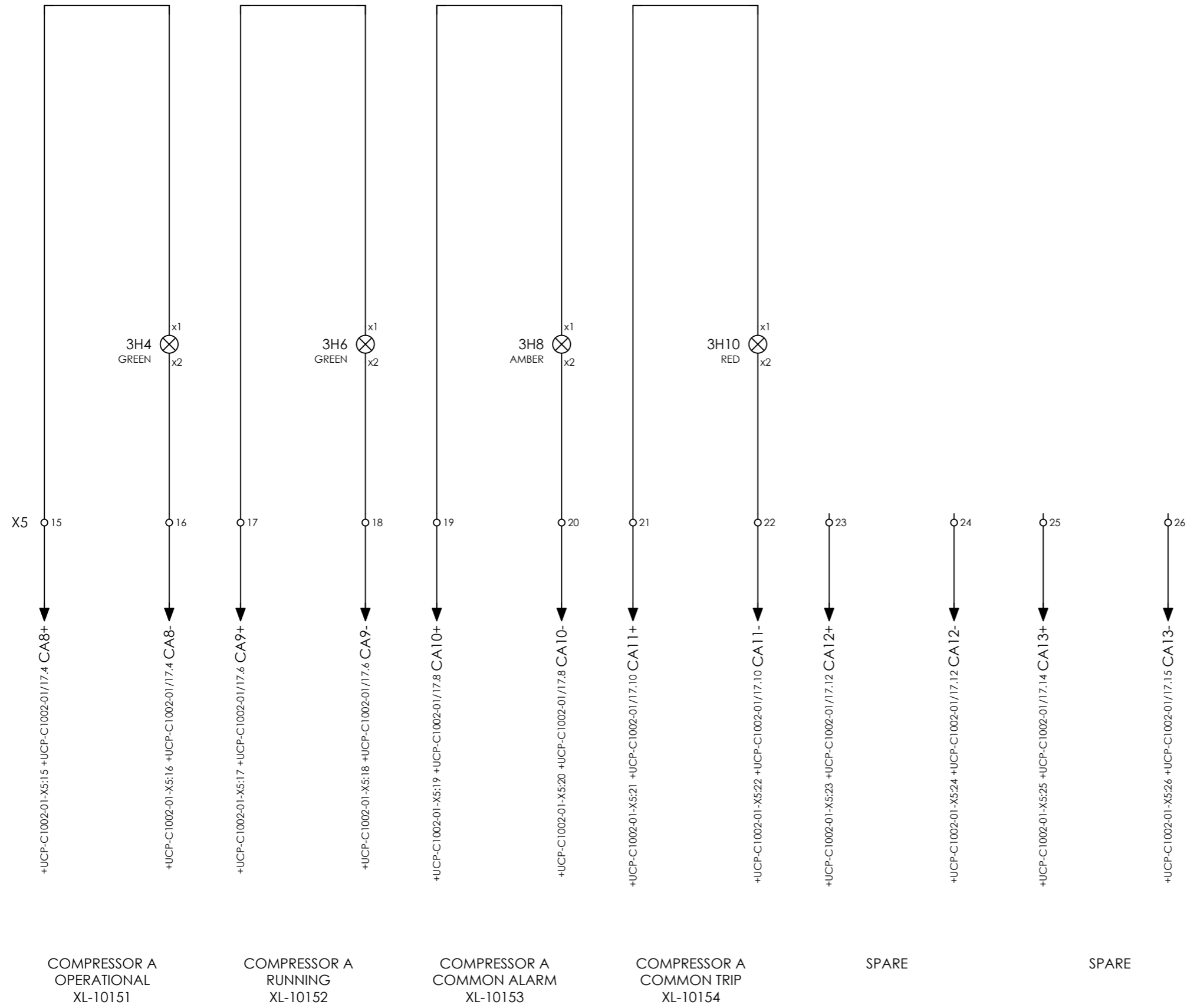


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EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT CONNECTION PUSHBUTTONS	
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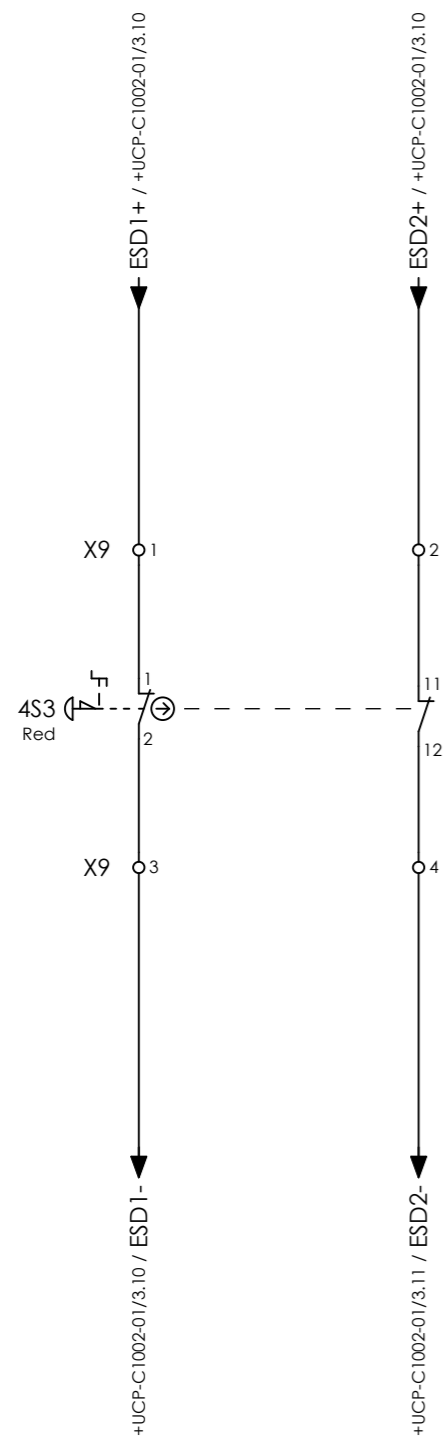


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
EQUIPMENT LOCATION	Iran, Onshore

SUBJECT CONNECTION LAMPS	
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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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CONNECTION ESD BUTTON		CHECKED BY		RBE		+ LP-C1002-01	
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CLIENT REF.	Bushehr MEG Plant Project	REVISION		02			
AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT		76			

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# Terminal diagram

Cable name		Strip =20-C-1002+LP-C1002-01-X5 CONNECTION PUSHBUTTONS AND LAMPS						Cable name		
Terminal	Connection point	Target designation	Connection point	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point
1	1	+UCP-C1002-01-X5	1	.	-2S4	3	1	.	PB-10151	3
2	2	+UCP-C1002-01-X5	2	.	-2S4	4	2	.	PB-10151	4
3	3	+UCP-C1002-01-X5	3	.	-2S6	1	3	.	PB-10152	1
4	4	+UCP-C1002-01-X5	4	.	-2S6	2	4	.	PB-10152	2
5	5	+UCP-C1002-01-X5	5	.	-2S8	3	5	.	PB-10154	3
6	6	+UCP-C1002-01-X5	6	.	-2S8	4	6	.	PB-10154	4
7	7	+UCP-C1002-01-X5	7	.	-2S10	3	7	.	HS-10151	3
8	8	+UCP-C1002-01-X5	8	.	-2S10	4	8	.	HS-10151	4
9	9	+UCP-C1002-01-X5	9	.	-2S10	13	9	.	HS-10151	13
10	10	+UCP-C1002-01-X5	10	.	-2S10	14	10	.	HS-10151	14
11	11	+UCP-C1002-01-X5	11	.			11	.		
12	12	+UCP-C1002-01-X5	12	.			12	.		
13	13	+UCP-C1002-01-X5	13	.			13	.		
14	14	+UCP-C1002-01-X5	14	.			14	.		
15	15	+UCP-C1002-01-X5	15	.	-3H4	x1	15	.	XL-10151	x1
16	16	+UCP-C1002-01-X5	16	.	-3H4	x2	16	.	XL-10151	x2
17	17	+UCP-C1002-01-X5	17	.	-3H6	x1	17	.	XL-10152	x1
18	18	+UCP-C1002-01-X5	18	.	-3H6	x2	18	.	XL-10152	x2
19	19	+UCP-C1002-01-X5	19	.	-3H8	x1	19	.	XL-10153	x1
20	20	+UCP-C1002-01-X5	20	.	-3H8	x2	20	.	XL-10153	x2
21	21	+UCP-C1002-01-X5	21	.	-3H10	x1	21	.	XL-10154	x1
22	22	+UCP-C1002-01-X5	22	.	-3H10	x2	22	.	XL-10154	x2
23	23	+UCP-C1002-01-X5	23	.			23	.		
24	24	+UCP-C1002-01-X5	24	.			24	.		
25	25	+UCP-C1002-01-X5	25	.			25	.		
26	26	+UCP-C1002-01-X5	26	.			26	.		



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# POWER DISTRIBUTION BOARD PD-C-1002-01

## TERMINAL STRIP DEFINITION

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



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+ PD-C-1002-01
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POWER SUPPLY  
FROM CUSTOMER  
400VAC/50HZ/3PH/N/PE

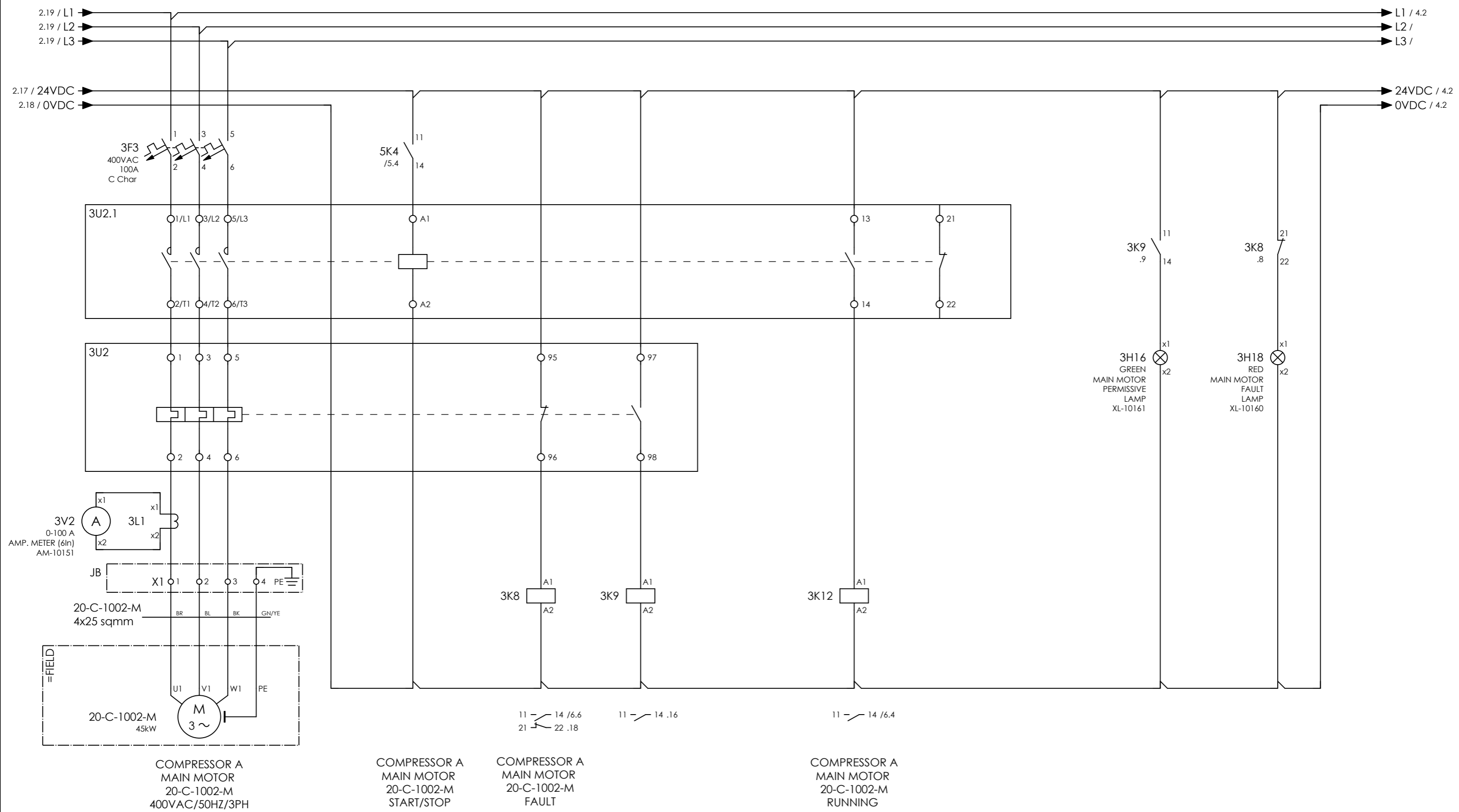
From: SWB3B-01 (0.4KV)  
Cable Type and Size: CU/XLPE/AWA/PVC3.5\*150mm2  
Gland: EX-IP65, C2/M63



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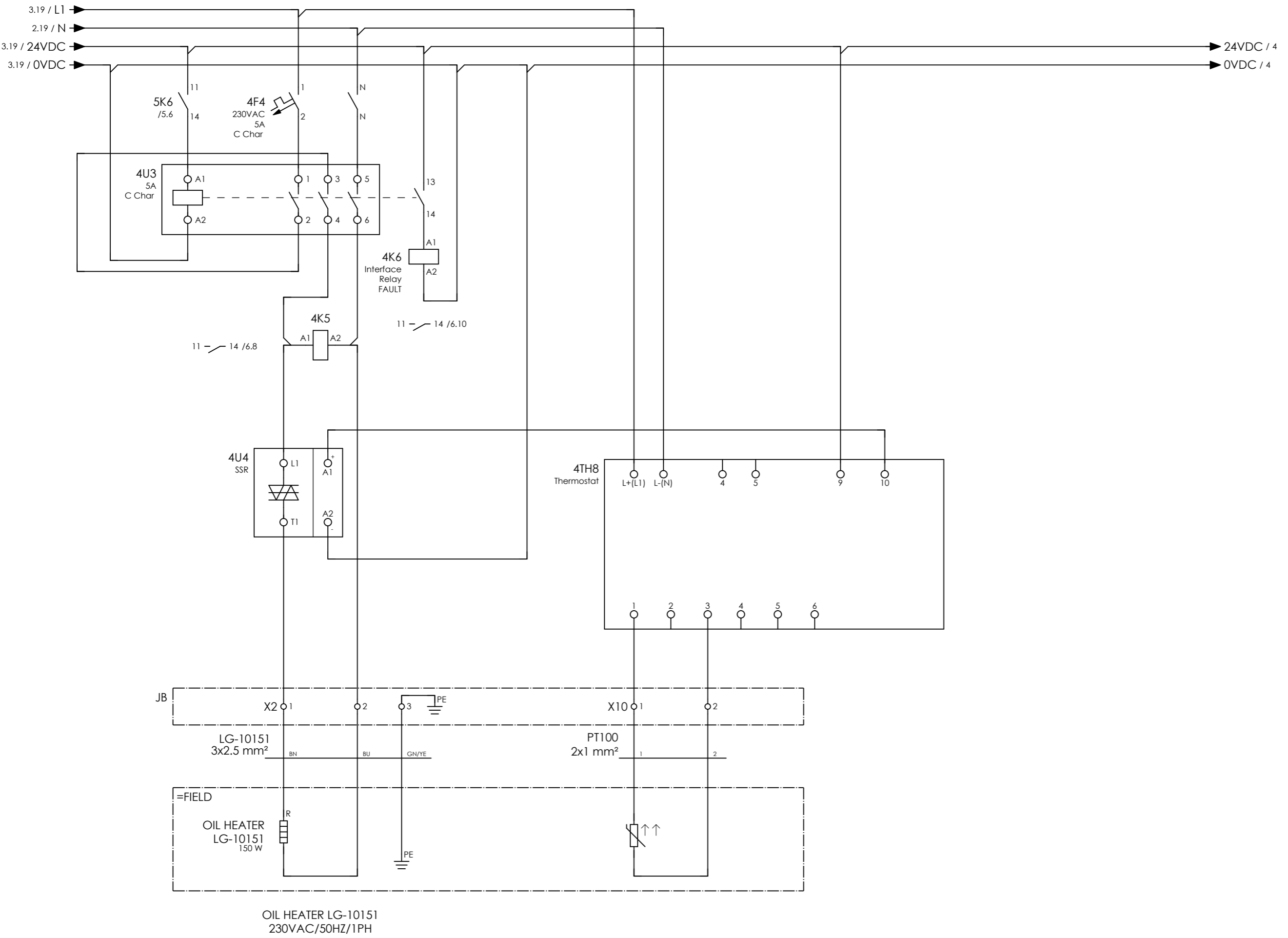
SUBJECT POWER SUPPLY	
ADAPTED TO P&ID REVISION	02
CLIENT	Bushehr Petrochemical Company (BUPC)
CLIENT REF.	Bushehr MEG Plant Project
AIRPACK REF.	17811-05A

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

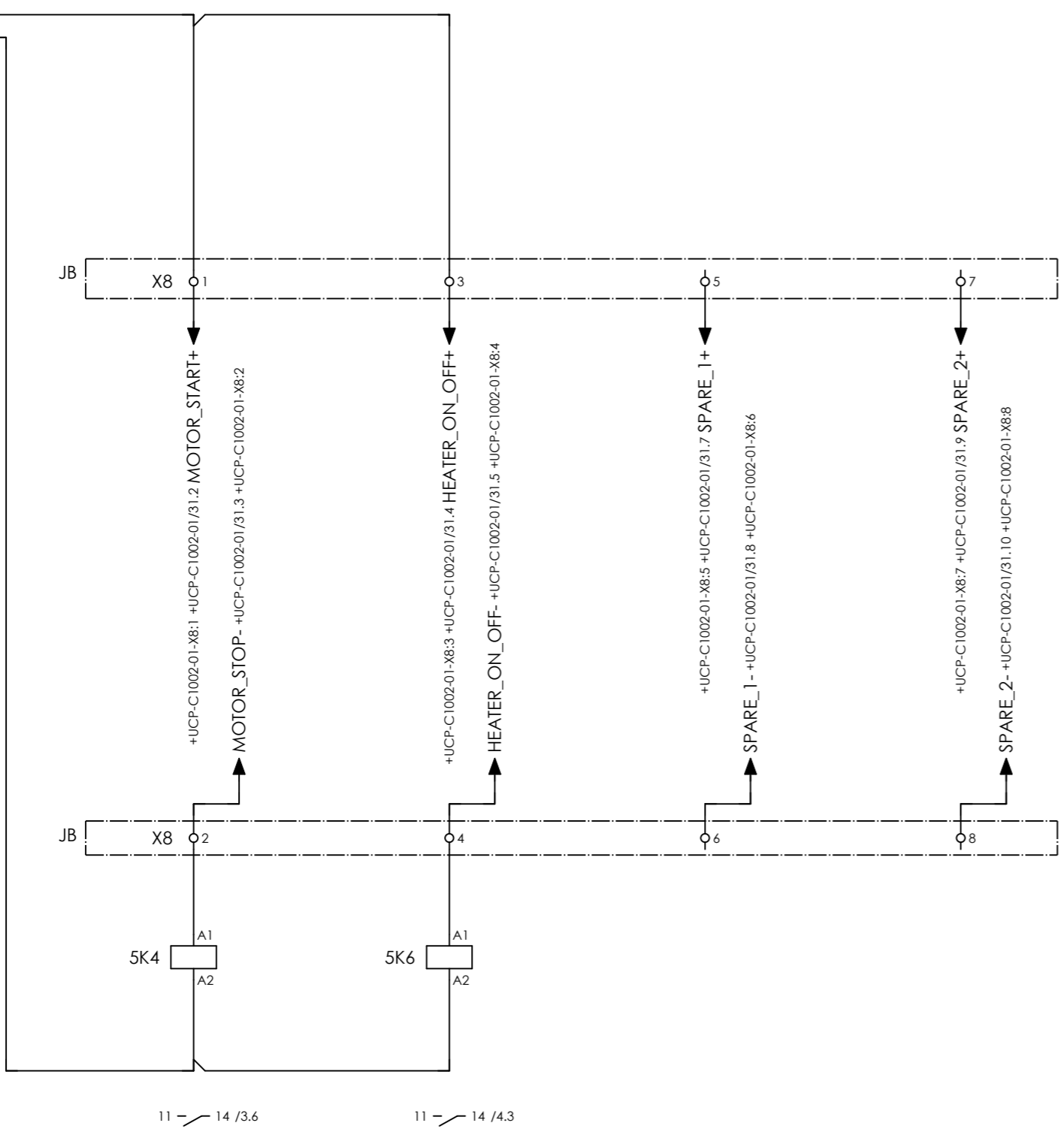


CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043	SUBJECT MAIN MOTOR		DRAWN BY	htaher	= 20-C-1002
EQUIPMENT NO.	20-C-1002	ADAPTED TO P&ID REVISION		CHECKED BY	RBE	+ PD-C-1002-01
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		CLIENT REF.	Bushehr MEG Plant Project	REVISION	02	
		AIRPACK REF.	17811-05A	TOTAL PAGE AMOUNT	81	

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LAST MODIFICATION DATE	07/12/2021	CURRENT PAGE
AIRPACK DWG NO.	17811-05	
REVISION	02	
TOTAL PAGE AMOUNT	81	



/ 24VDC  
/ -0VDC



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

COMPRESSOR A  
OIL HEATER LG-10151  
ON/OFF

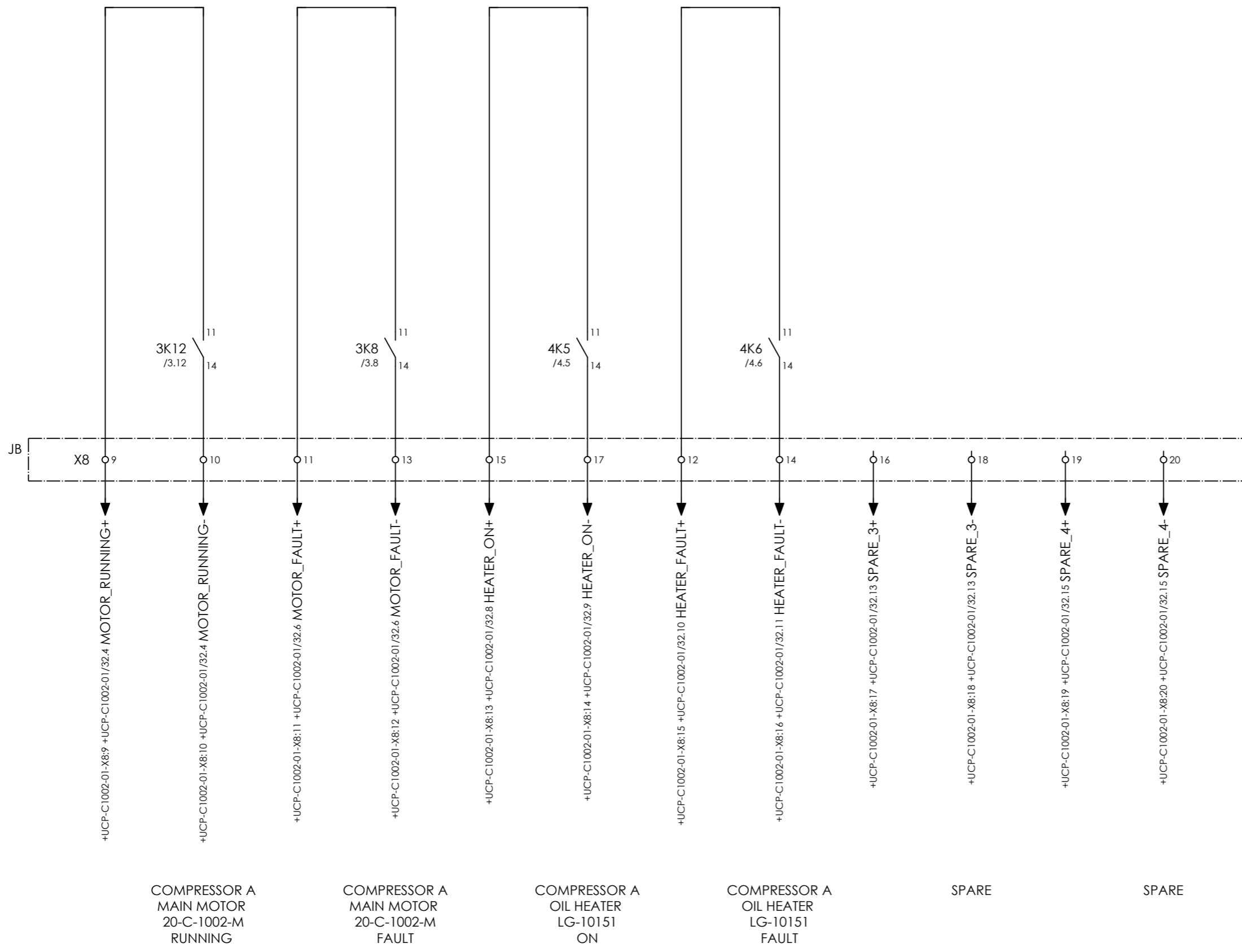
SPARE

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			



CLIENT DWG NO.	BU-20-VD-303-IN-DIG-0043
EQUIPMENT NO.	20-C-1002
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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LAST MODIFICATION DATE	07/12/2021
AIRPACK DWG NO.	17811-05
REVISION	02
TOTAL PAGE AMOUNT	84

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+ PD-C-1002-01
CURRENT PAGE





# Terminal diagram

Cable name		Cable name		Connection point		Terminal		Jumper		Target designation		Connection point		Target designation	
Strip =20-C-1002+PD-C-1002-01-X2 OIL HEATER				R		1		.		-4U6		14		=FIELD-OIL HEATER LG-10001	
				PE		2		.		-4K5		A2		=FIELD-OIL HEATER LG-10001	
-LG-10151		3x2.5 mm²		BN		BU		GN/YE							



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SUBJECT Terminal diagram =20-C-1002+PD-C-1002-01-X2  
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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 87

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 + PD-C-1002-01  
 CURRENT PAGE

# 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	Cable name	
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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SUBJECT Terminal diagram =20-C-1002+PD-C-1002-01-X8  
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 CLIENT REF. Bushehr MEG Plant Project  
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 TOTAL PAGE AMOUNT 88

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 + PD-C-1002-01  
 CURRENT PAGE

# 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			



CLIENT DWG NO. BU-20-VD-303-IN-DIG-0043  
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SUBJECT Terminal diagram =20-C-1002+PD-C-1002-01-X10  
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