



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

Page

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision
N278	VD	6019	IN	DIA	0005	04

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box (K020)**

- As per TCL, Lamp test push button should be considered in LPS, then should be added in wiring diagram and other related document(Outline Dimensional Drawings and IO List) and as per reply sheet next The P&ID Should be updated and shared throughout the project when something changed.
- As per TCL, Illumination shall be provided by fluorescent lamps which shall be operated by door Switch for LCP.
(related wiring should be added in wiring diagram document)

code-2
M. Vakili

04	14-02-2024	Issued for Approval	R.T.	S.K.	J.J.
03	21-12-2023	Issued for Approval	R.T.	S.K.	J.J.
02	07-12-2023	Issued for Approval	R.T.	S.K.	J.J.
01	03-11-2023	Issued for Approval	R.T.	S.K.	J.J.
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

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Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
N278	VD	6019	IN	DIA	0005	04	Page 2 of 21

LIST OF REVISED PAGES

Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05
1	X	X	X	X		26						51						76					
2	X	X	X	X		27						52						77					
3	X	X	X	X		28						53						78					
4	X	X	X	X		29						54						79					
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6	X	X	X	X		31						56						81					
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12	X	X	X	X		37						62						87					
13	X	X	X	X		38						63						88					
14	X	X	X	X		39						64						89					
15	X	X	X	X		40						65						90					
16	X	X	X	X		41						66						91					
17	X	X		X		42						67						92					
18	X	X		X		43						68						ATTACHMENT					
19	X	X		X		44						69						1					
20	X	X				45						70						2					
21		X				46						71						3					
22						47						72						4					
23						48						73						5					
24						49						74						6					
25						50						75						7					



Airpack B.V.

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WEBPAGE : WWW.AIRPACK.NL

Client	:	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		
Equipment location	:	IRAN, ONSHORE		
Client reference	:	INTEGRATED METHANOL AND AMMONIA PLANT		
Client dwg. no.	:	N-278-VD-6019-IN-DIA-0005-01		
Airpack reference	:	17735-05 Wiring Diagram		
Airpack dwg. no.	:	17735-05		
Generation date	:	2023-11-02		
E & I manager	:	RBE	Revision no.	: 04
Last modifications	:	2024-02-13		
Last modifications by	:	RTR		



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT	
Title page / cover sheet	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	04	
TOTAL PAGE AMOUNT	1	

COMMENTS ON ELECTRICAL DRAWINGS

LPS AND JB MOUNTED ON SKID
 MATERIAL: SHEET STEEL
 INGRESS. PROTECTION: IP-65
 AREA CLASSIFICATION: SAFE

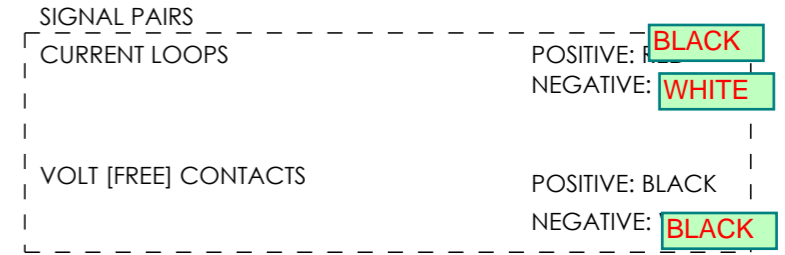
GLANDS: SS316 GLANDS WITH SHROUDS, IP-66
 CABLE TRAYS: HOT-DIP GALVANIZED

AMBIENT TEMPERATURE: 0 / 49 °C

ALL "IE" CONNECTIONS WILL BE CONNECTED ON A "IE"-BAR

REFERENCE DOCUMENTS:

- 17735-03 - N-278-VD-6019-PR-PID-0002-01 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006-01 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007-01 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022-01 - Control Philosophy


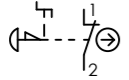


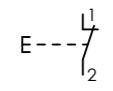
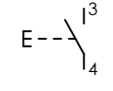


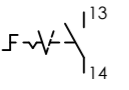


As per latest VPIS, "01" is removed from all document No.



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT	Project description	DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	ADAPTED TO P&ID REVISION	07	CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	LAST MODIFICATION DATE	2023-12-18	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.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK DWG NO.	17735-05	2
AIRPACK REF.	17735-05 Wiring Diagram	REVISION	04	TOTAL PAGE AMOUNT	2	

SYMBOL LEGEND


SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CABLE SHIELD		
	EMERGENCY STOP		
	INDICATION LAMP		
	INSTRUMENT EARTH CONNECTION POINT		
	N/C PUSHBUTTON		
	N/O PUSHBUTTON		
	TERMINAL CONNECTION POINT		
	TRANSMITTER CONNECTION POINT		
	TWO-POSITION SELECTOR SWITCH		

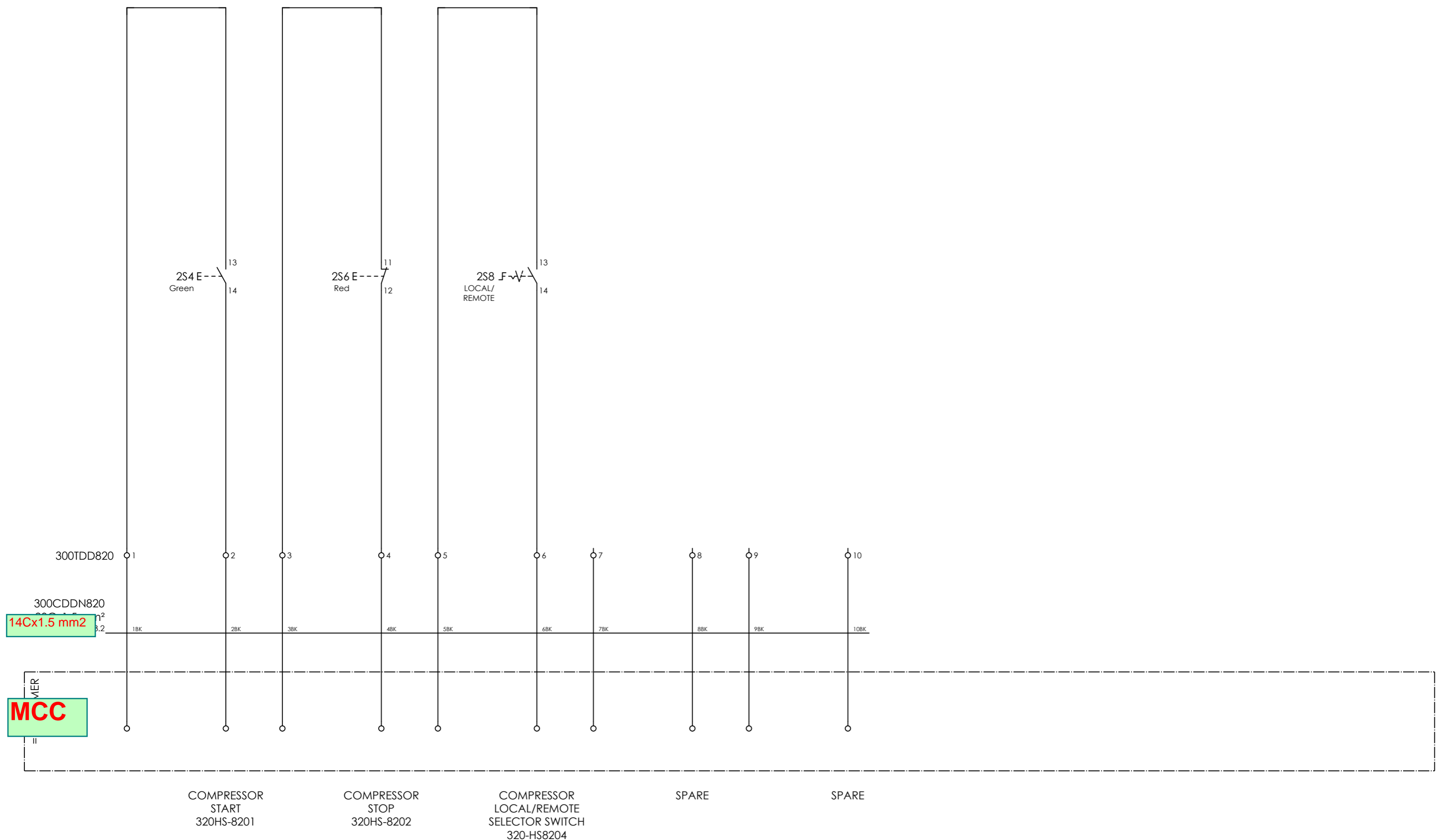
300LP-820 LOCAL PUSHBUTTON STATION

TERMINAL STRIP DEFINITION

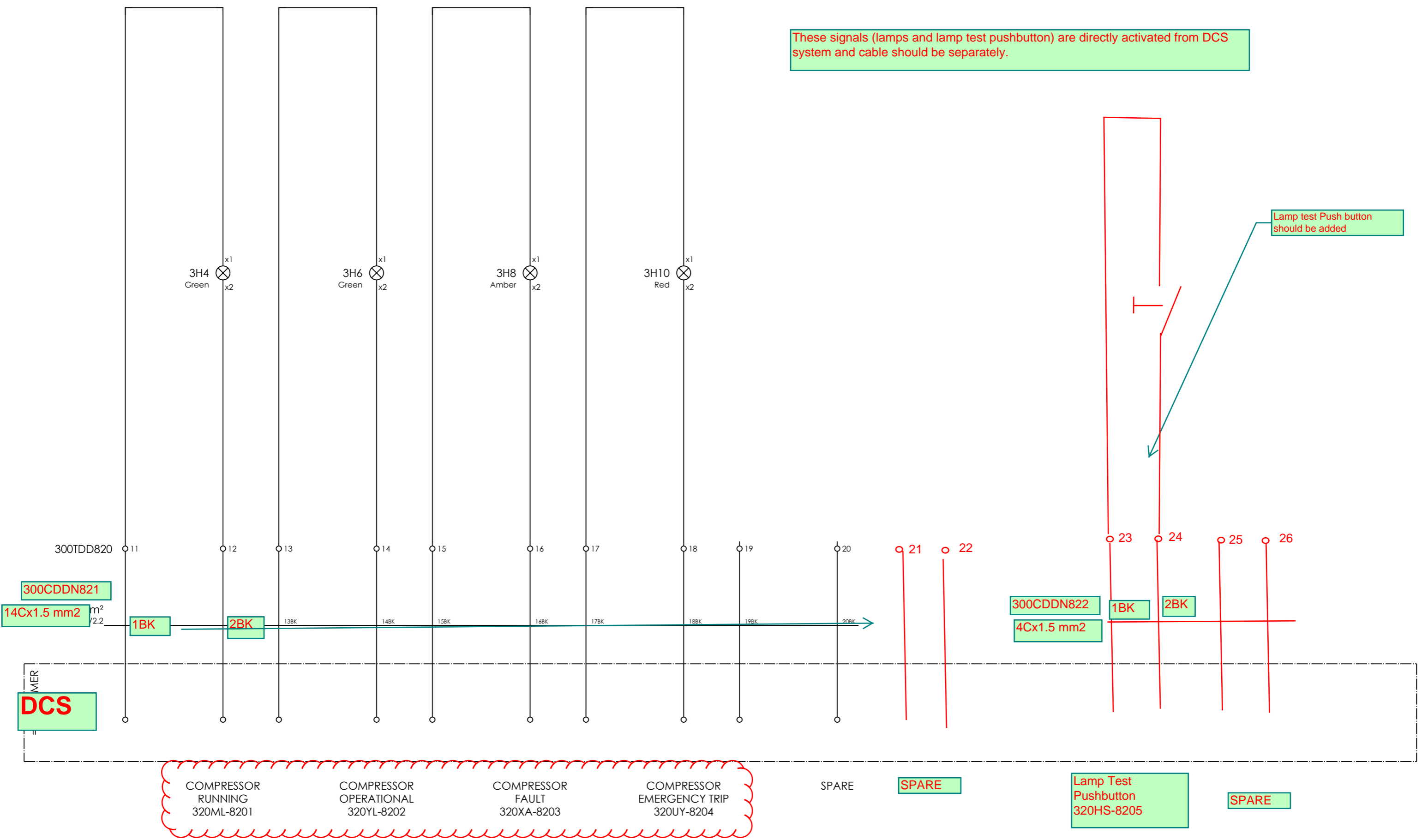
300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON

	CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020	
	EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 300LP-820	
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE	
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT		REVISION	04	
AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	5				



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	PUSHBUTTONS		CHECKED BY	RBE	+ 300LP-820
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-05	
		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	04	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	6	



These signals (lamps and lamp test pushbutton) are directly activated from DCS system and cable should be separately.

Lamp test Push button should be added

COMPRESSOR RUNNING 320ML-8201
 COMPRESSOR OPERATIONAL 320YL-8202
 COMPRESSOR FAULT 320XA-8203
 COMPRESSOR EMERGENCY TRIP 320UY-8204

Lamp Test Pushbutton 320HS-8205



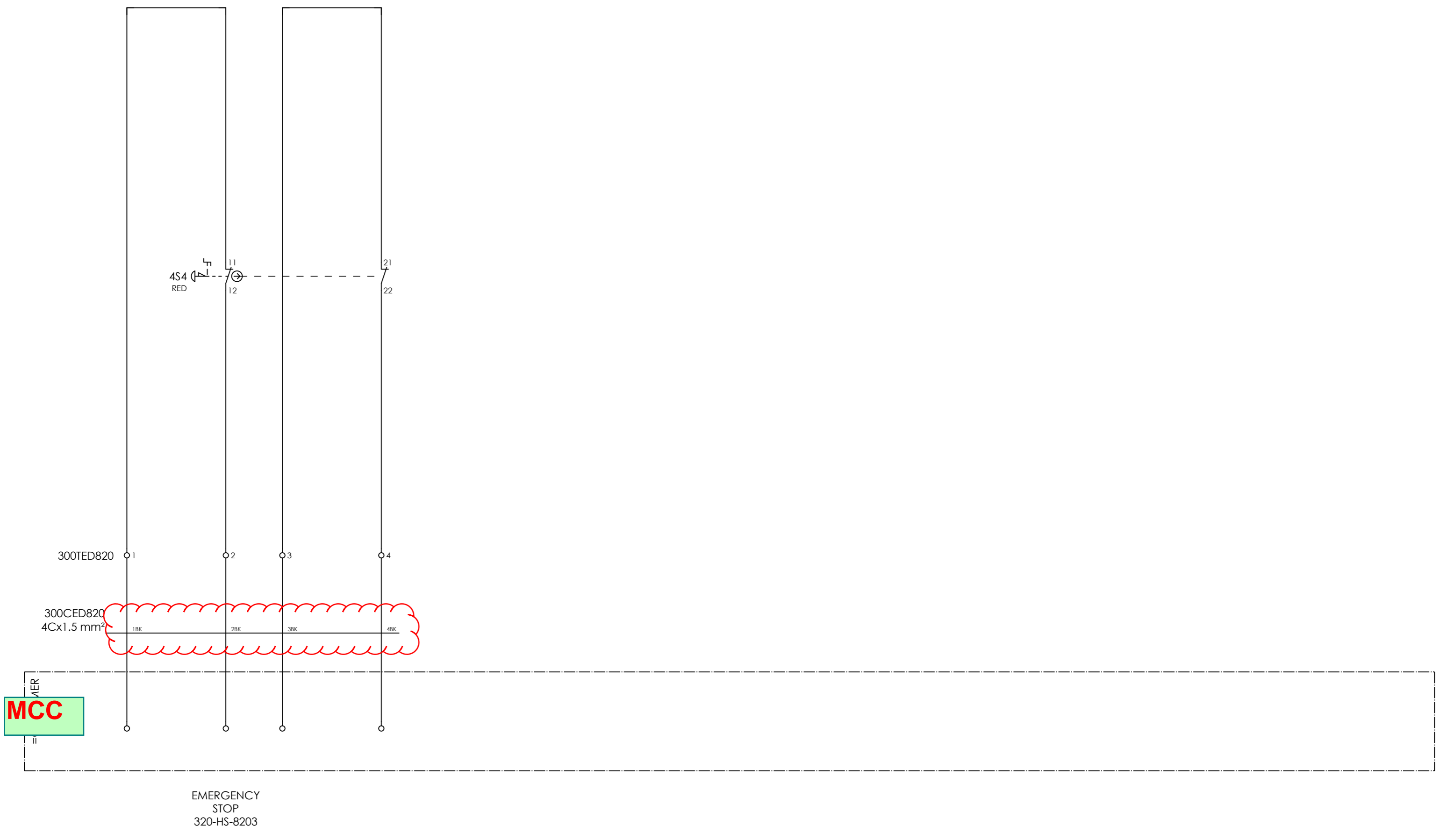
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EQUIPMENT LOCATION	IRAN, ONSHORE

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SUBJECT	LAMPS
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	04
TOTAL PAGE AMOUNT	7

= 320-K-020
+ 300LP-820
CURRENT PAGE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT ESD PUSHBUTTON	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300LP-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	04	
TOTAL PAGE AMOUNT	8	

Terminal diagram

Cable name		Strip =320-K-020+300LP-820-300TDD820 CONNECTION PUSHBUTTONS AND LAMPS										Cable name	
Terminal	Connection point	Terminal	Connection point	Jumper	Target designation	Terminal	Connection point	Terminal	Connection point	Jumper	Target designation	Terminal	Connection point
1BK		1		.	-2S4	13							
2BK		2		.	-2S4	14							
3BK		3		.	-2S6	11							
4BK		4		.	-2S6	12							
5BK		5		.	-2S8	13							
6BK		6		.	-2S8	14							
7BK		7		.									
8BK		8		.									
9BK		9		.									
10BK		10		.									
11BK		11		.	-3H4	x1							
12BK		12		.	-3H4	x2							
13BK		13		.	-3H6	x1							
14BK		14		.	-3H6	x2							
15BK		15		.	-3H8	x1							
16BK		16		.	-3H8	x2							
17BK		17		.	-3H10	x1							
18BK		18		.	-3H10	x2							
19BK		19		.									
20BK		20		.									



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005-01
 EQUIPMENT NO. 320-K-020
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SUBJECT Terminal diagram =320-K-020+300LP-820-300TDD820
 ADAPTED TO P&ID REVISION 07
 CLIENT LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
 CLIENT REF. INTEGRATED METHANOL AND AMMONIA PLANT
 AIRPACK REF. 17735-05 Wiring Diagram


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 AIRPACK DWG NO. 17735-05
 REVISION 04
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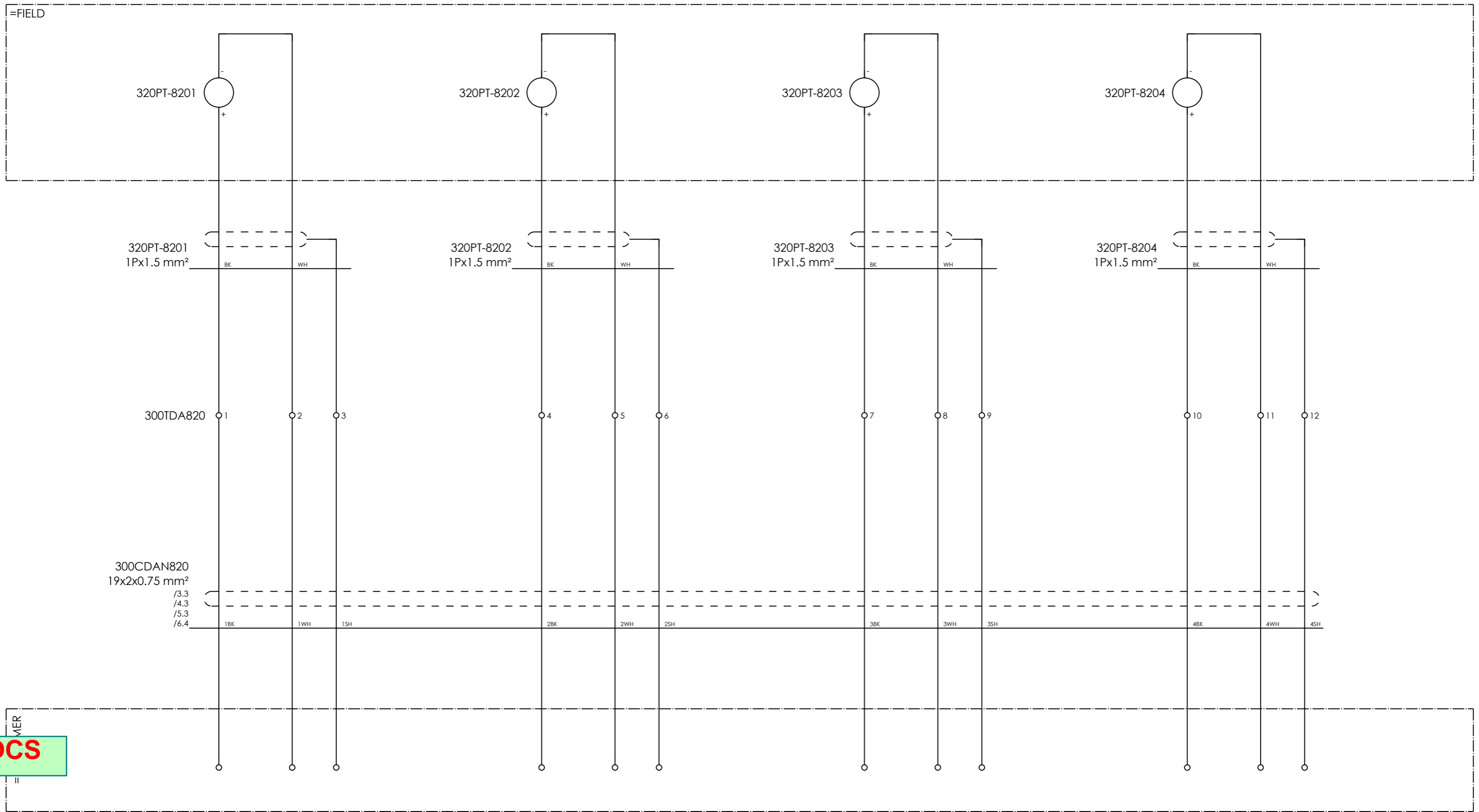
= 320-K-020
 + 300LP-820
 CURRENT PAGE

300JDAN-820 ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

300TDA820 = CONNECTION ANALOG TRANSMITTERS TO CLIENT
 300TDA821 = CONNECTION PRESSURE CONTROL VALVE TO CLIENT

	CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020	
	EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 300JDAN-820	
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE	
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT		REVISION	04	
		AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	11		



PRESSURE TRANSMITTER 320PT-8201

PRESSURE TRANSMITTER 320PT-8202

PRESSURE TRANSMITTER 320PT-8203

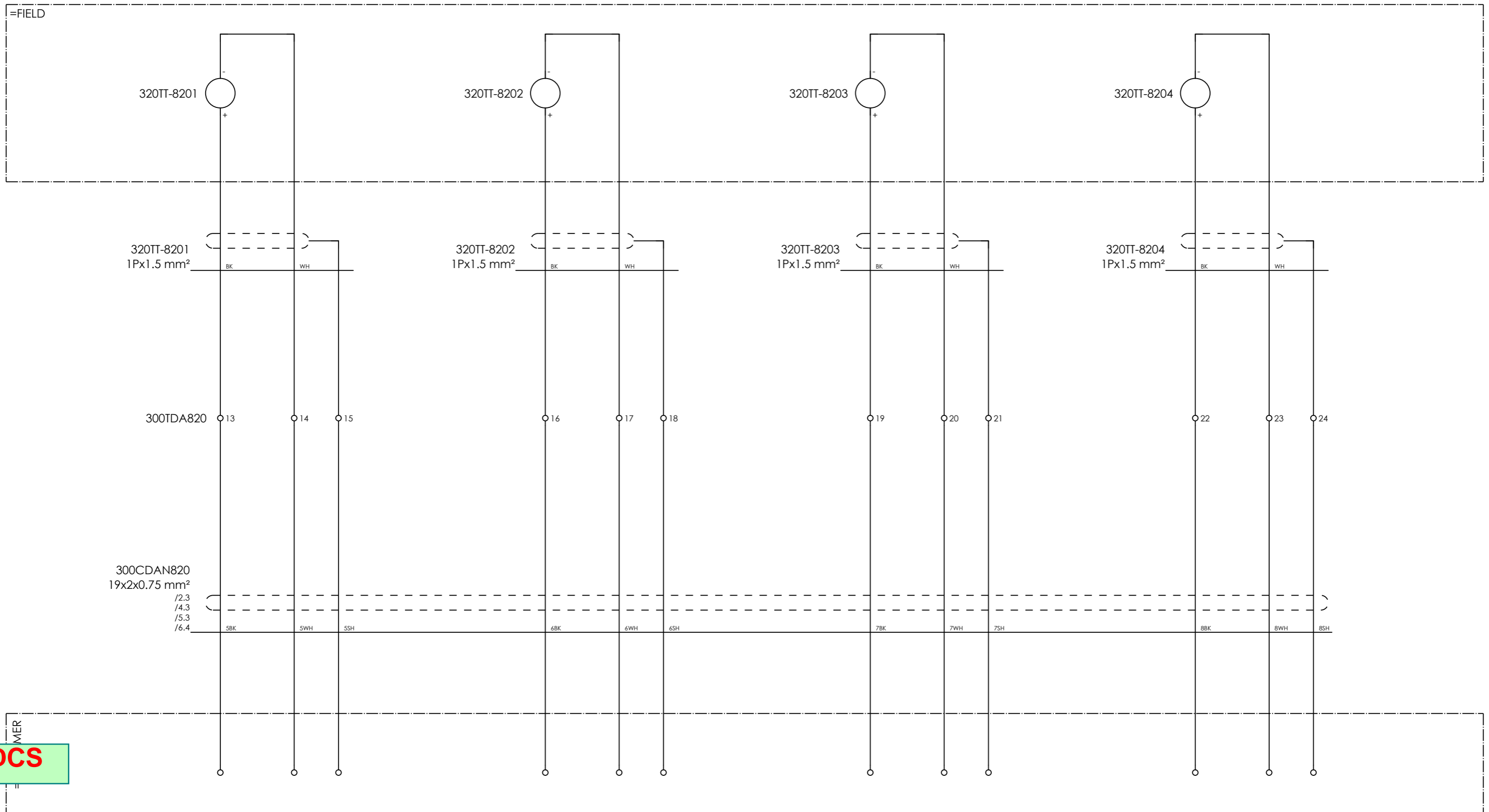
PRESSURE TRANSMITTER 320PT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ANALOG TRANSMITTERS	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	04	
TOTAL PAGE AMOUNT	12	



DCS

TEMPERATURE TRANSMITTER 320TT-8201

TEMPERATURE TRANSMITTER 320TT-8202

TEMPERATURE TRANSMITTER 320TT-8203

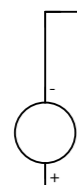
TEMPERATURE TRANSMITTER 320TT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	ANALOG TRANSMITTERS		CHECKED BY	RBE	+ 300JDAN-820
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	04	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	13	

=FIELD

320TT-8205



320TT-8205
1Px1.5 mm²



300TDA820

25 26 27

28

29

30

31

32

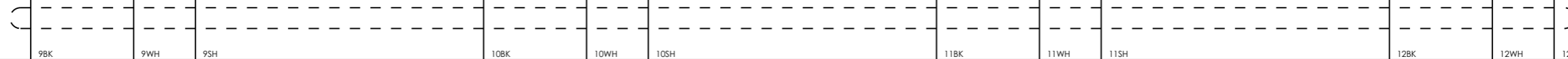
33

34

35

36

300CDAN820
19x2x0.75 mm²
/2.3
/3.3
/5.3
/6.4



DCS

=DCS

TEMPERATURE
TRANSMITTER
320TT-8205

SPARE

SPARE

SPARE



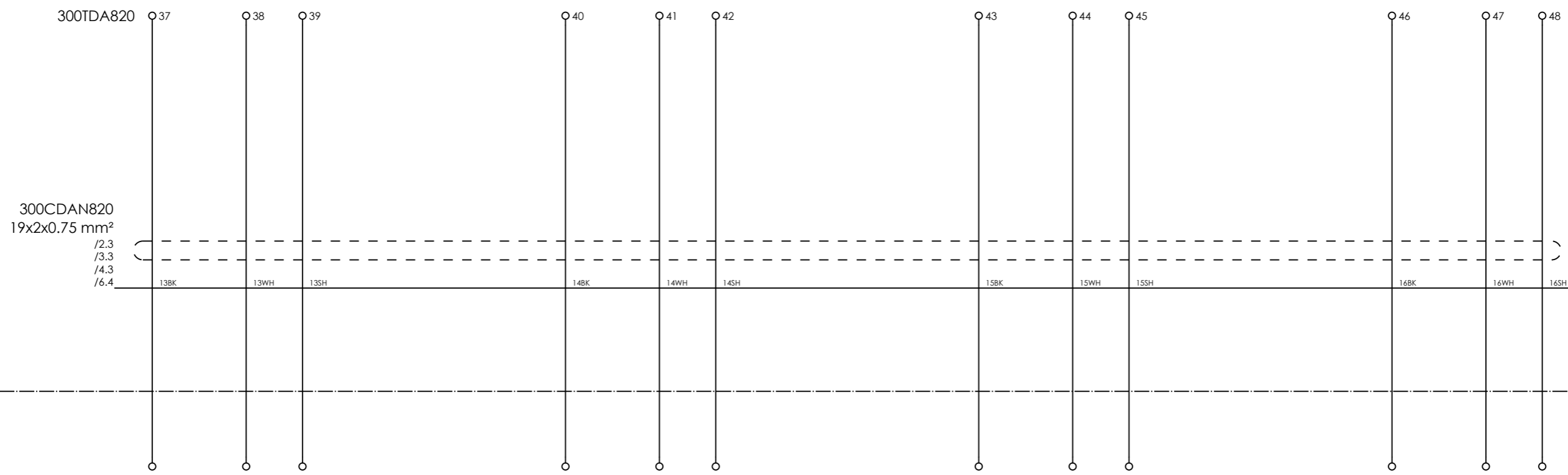
CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
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=FIELD



SPARE

SPARE

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT ANALOG TRANSMITTERS	
ADAPTED TO P&ID REVISION	07

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE

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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

AIRPACK DWG NO.	17735-05
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PRESSURE CONTROL VALVE
320PCV-8201

SPARE

SPARE

DCS

300CDAN820
19x2x0.75 mm²
/2.3
/3.3
/4.3
/5.3

17BK 17WH 17SH 18BK 18WH 18SH 19BK 19WH 19SH OSH

300TDA821 1 2 3

4 5 6 7 8 9 10

320PCV-8201
1Px1.5 mm²

BK WH

IE

320PCV-8201



=FIELD



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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SUBJECT PRESSURE CONTROL VALVE	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	04
TOTAL PAGE AMOUNT	16

= 320-K-020
+ 300JDAN-820
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