



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	Page
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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)**

code-1  
M. Vakili

05	20-03-2024	Issued for Approval	R.T.	S.K.	J.J.
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	05	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	X	26						51						76					
2	X	X	X	X	X	27						52						77					
3	X	X	X	X	X	28						53						78					
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22						47						72						4					
23						48						73						5					
24						49						74						6					
25						50						75						7					



# Airpack B.V.

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The Netherlands

PHONE: (31) (0) 111 - 415455

FAX: (31) (0) 111 - 413338

E-MAIL : AIRPACK@AIRPACK.NL

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		
Airpack reference	:	17735-05 Wiring Diagram		
Airpack dwg. no.	:	17735-05		
Generation date	:	2023-11-02		
E & I manager	:	RBE	Revision no.	: 05
Last modifications	:	2024-03-19		
Last modifications by	:	RTR		



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
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	05	
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 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022 - Control Philosophy

**SIGNAL PAIRS**

CURRENT LOOPS

VOLT [FREE] CONTACTS

POSITIVE: BLACK  
 NEGATIVE: WHITE

POSITIVE: BLACK  
 NEGATIVE: BLACK




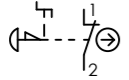


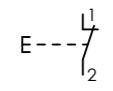
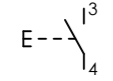


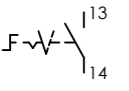
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT Project description	
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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REVISION	05	
TOTAL PAGE AMOUNT	2	

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# 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

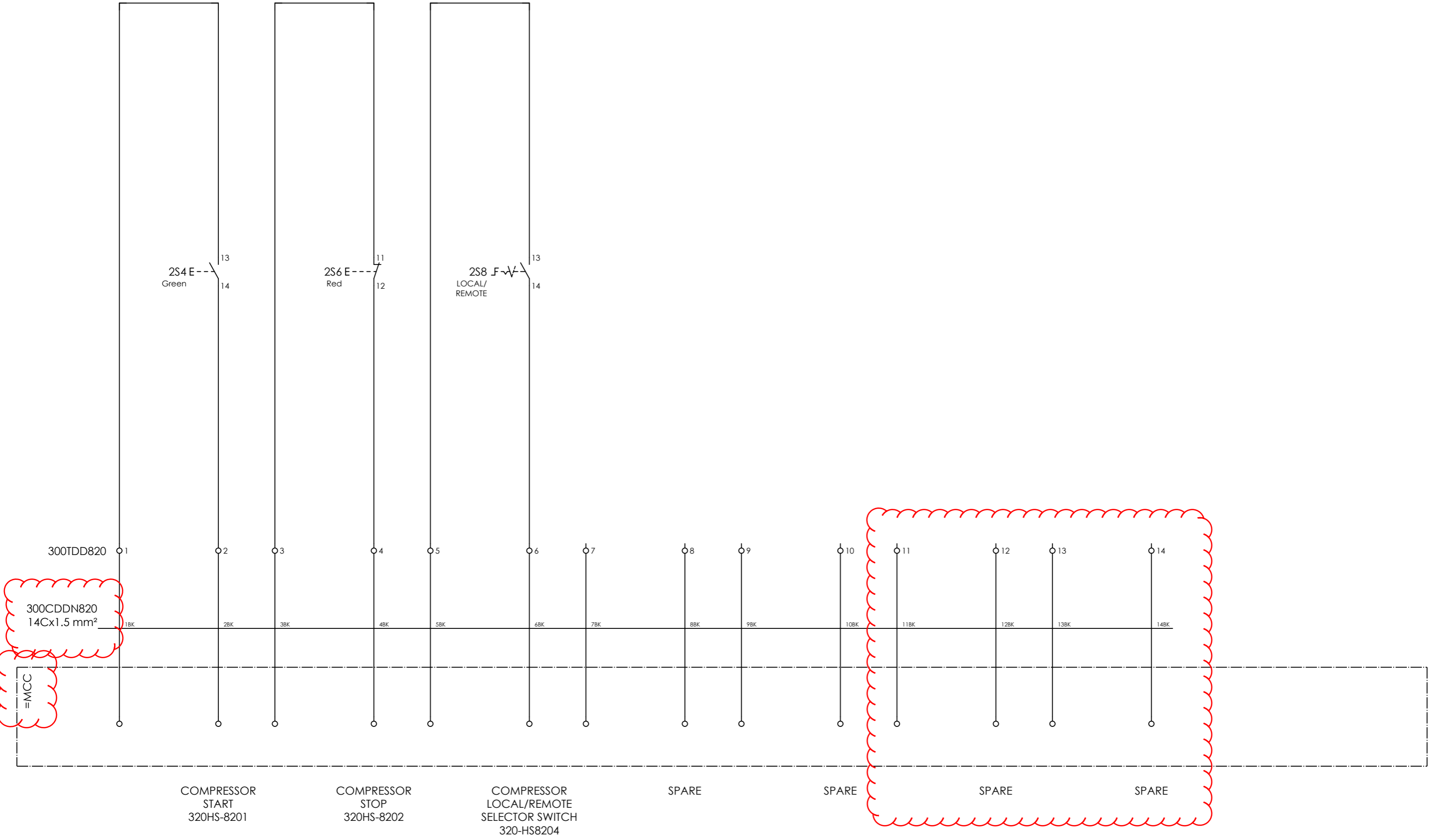
## TERMINAL STRIP DEFINITION

300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005	SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	ADAPTED TO P&ID REVISION	07	CHECKED BY	RBE	+ 300LP-820
EQUIPMENT LOCATION	IRAN, ONSHORE	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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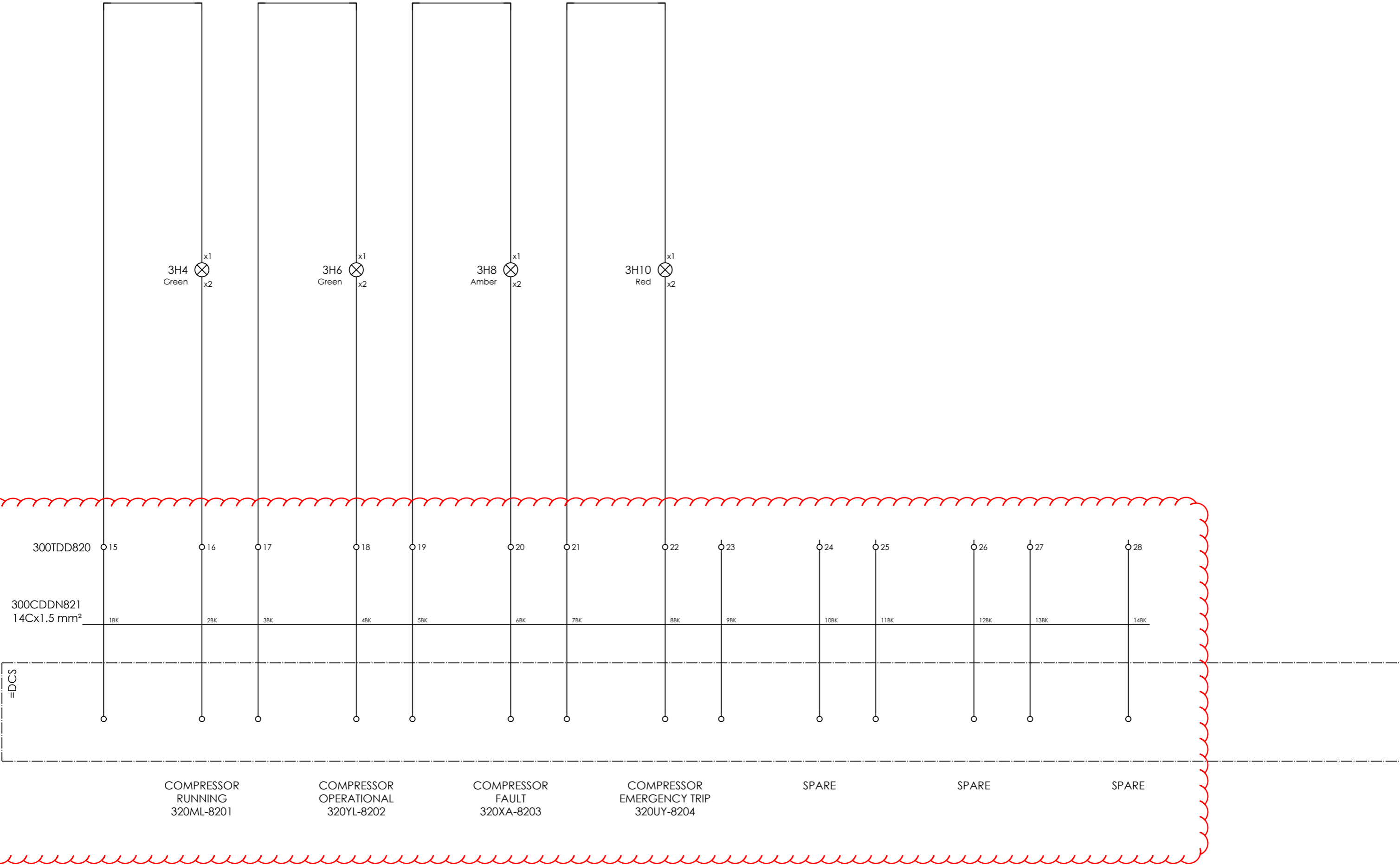


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT PUSHBUTTONS	
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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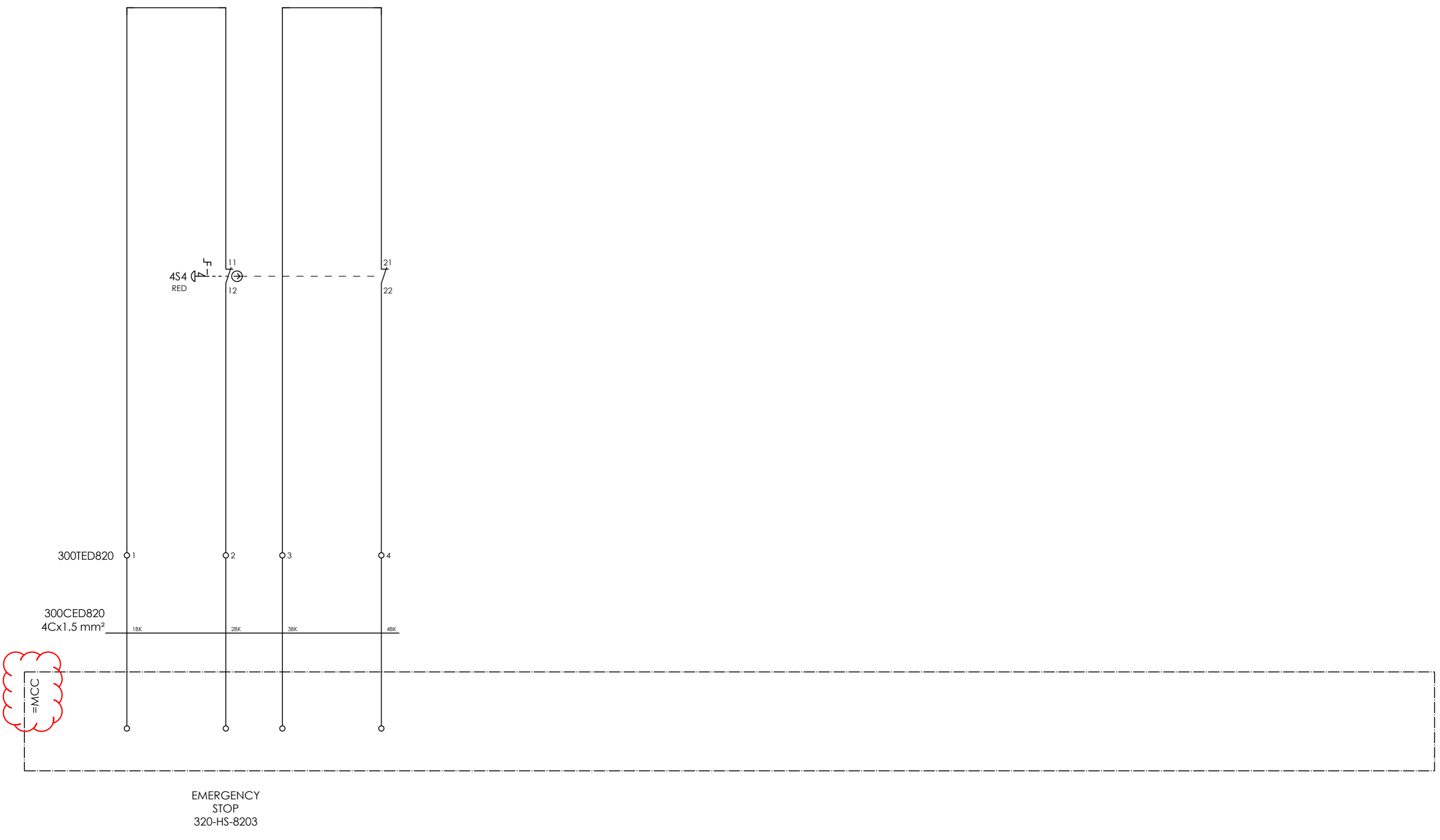


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SUBJECT LAMPS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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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

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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	05	
TOTAL PAGE AMOUNT	8	

# Terminal diagram

Cable name		Strip =320-K-020+300LP-820-300TDD820 CONNECTION PUSHBUTTONS AND LAMPS										Cable name		
Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Terminal	Target designation	Connection point	Terminal	
-300CDDN821	14Cx1.5 mm <sup>2</sup>	1BK				1	.	-2S4	13					
-300CDDN820	14Cx1.5 mm <sup>2</sup>	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	.							
		12BK				12	.							
		13BK				13	.							
		14BK				14	.							
						15	.	-3H4	x1					
						16	.	-3H4	x2					
						17	.	-3H6	x1					
						18	.	-3H6	x2					
						19	.	-3H8	x1					
						20	.	-3H8	x2					
						21	.	-3H10	x1					
						22	.	-3H10	x2					
						23	.							
						24	.							
						25	.							
						26	.							
						27	.							
						28	.							



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005  
 EQUIPMENT NO. 320-K-020  
 EQUIPMENT LOCATION IRAN, ONSHORE  
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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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 CHECKED BY RBE  
 LAST MODIFICATION DATE 2023-12-18  
 AIRPACK DWG NO. 17735-05  
 REVISION 05  
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= 320-K-020  
 + 300LP-820  
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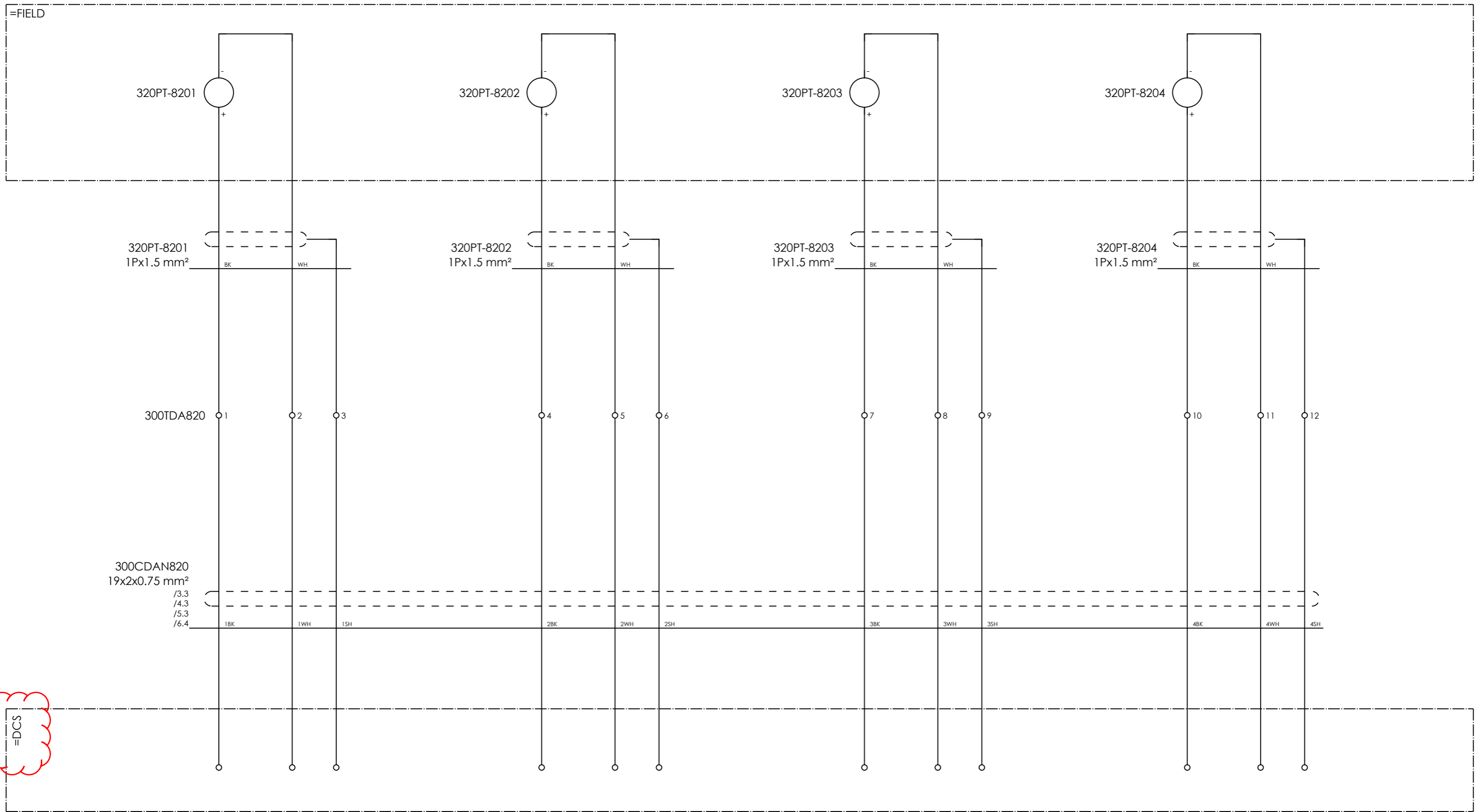


# 300JDAN-820 ANALOG JUNCTION BOX

## 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	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	
	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	05	
		AIRPACK REF.	17735-05 Wiring Diagram		TOTAL PAGE AMOUNT	11		



PRESSURE TRANSMITTER  
320PT-8201

PRESSURE TRANSMITTER  
320PT-8202

PRESSURE TRANSMITTER  
320PT-8203

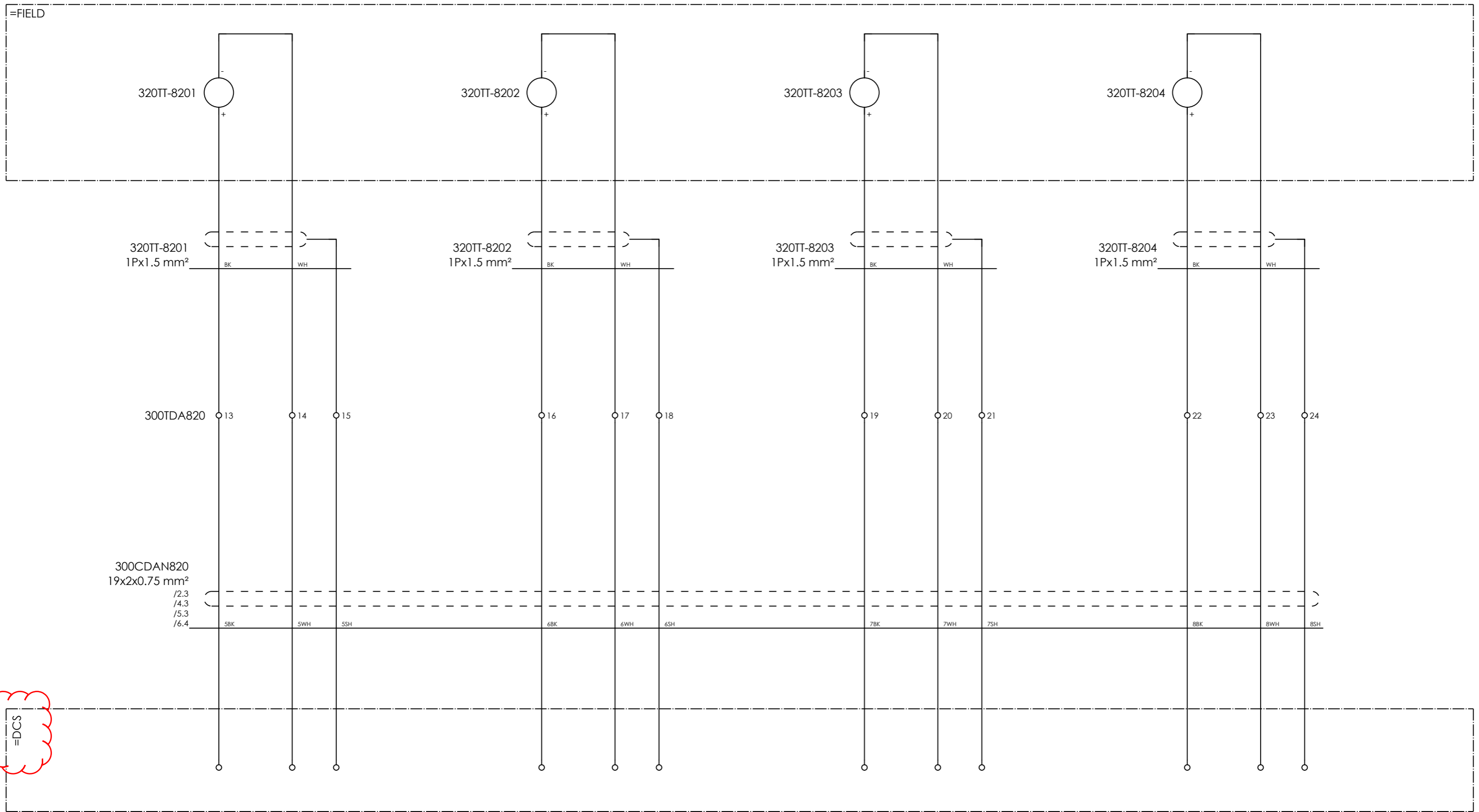
PRESSURE TRANSMITTER  
320PT-8204



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
EQUIPMENT NO.	320-K-020
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
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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
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TOTAL PAGE AMOUNT	12	



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
EQUIPMENT NO.	320-K-020
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

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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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TOTAL PAGE AMOUNT	13	

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320TT-8205



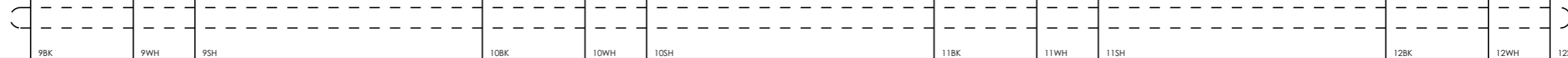
320TT-8205  
1Px1.5 mm<sup>2</sup>



300TDA820



300CDAN820  
19x2x0.75 mm<sup>2</sup>  
/2.3  
/3.3  
/5.3  
/6.4



=DCS

TEMPERATURE  
TRANSMITTER  
320TT-8205

SPARE

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
EQUIPMENT NO.	320-K-020
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=FIELD

300TDA820

○37

○38

○39

○40

○41

○42

○43

○44

○45

○46

○47

○48

300CDAN820  
19x2x0.75 mm<sup>2</sup>

/2.3  
/3.3  
/4.3  
/6.4

13BK

13WH

13SH

14BK

14WH

14SH

15BK

15WH

15SH

16BK

16WH

16SH

=DCS

SPARE

SPARE

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
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)
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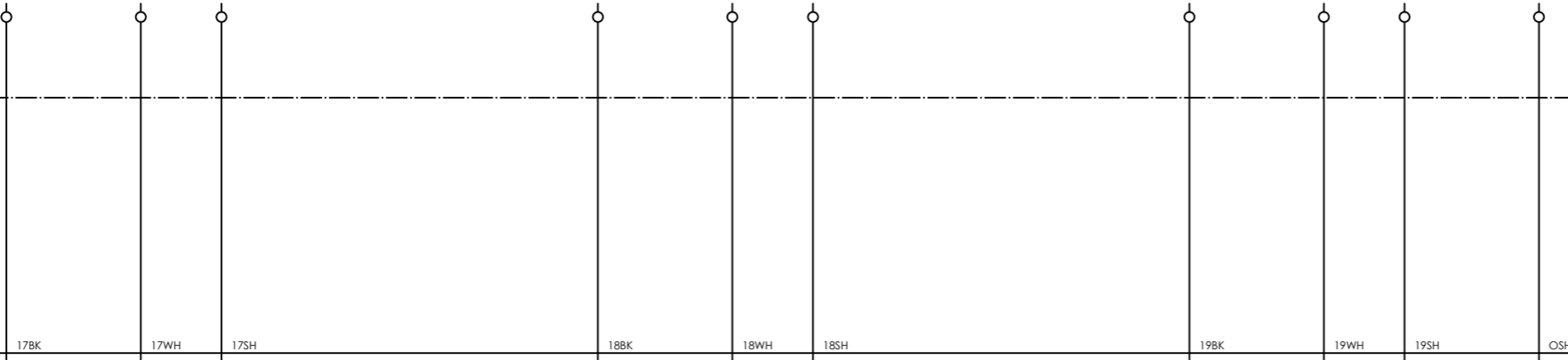
PRESSURE  
CONTROL VALVE  
320PCV-8201

SPARE

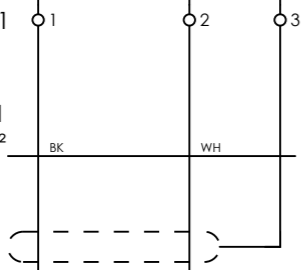
SPARE

=DCS

300CDAN820  
19x2x0.75 mm<sup>2</sup>  
/2.3  
/3.3  
/4.3  
/5.3



300TDA821 1 2 3  
320PCV-8201  
1Px1.5 mm<sup>2</sup>  
BK WH



=FIELD

