



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	05

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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)**

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					
4	X	X	X	X	X	29						54						79					
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24						49						74						6					
25						50						75						7					



Airpack B.V.

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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	SUBJECT		DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Title page / cover sheet		CHECKED BY	RBE	+
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	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

SIGNAL PAIRS
 CURRENT LOOPS

VOLT [FREE] CONTACTS

POSITIVE: BLACK
 NEGATIVE: WHITE

POSITIVE: BLACK
 NEGATIVE: BLACK

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




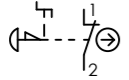


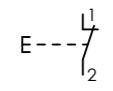
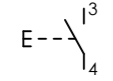


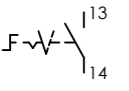
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EQUIPMENT NO.	320-K-020
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ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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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

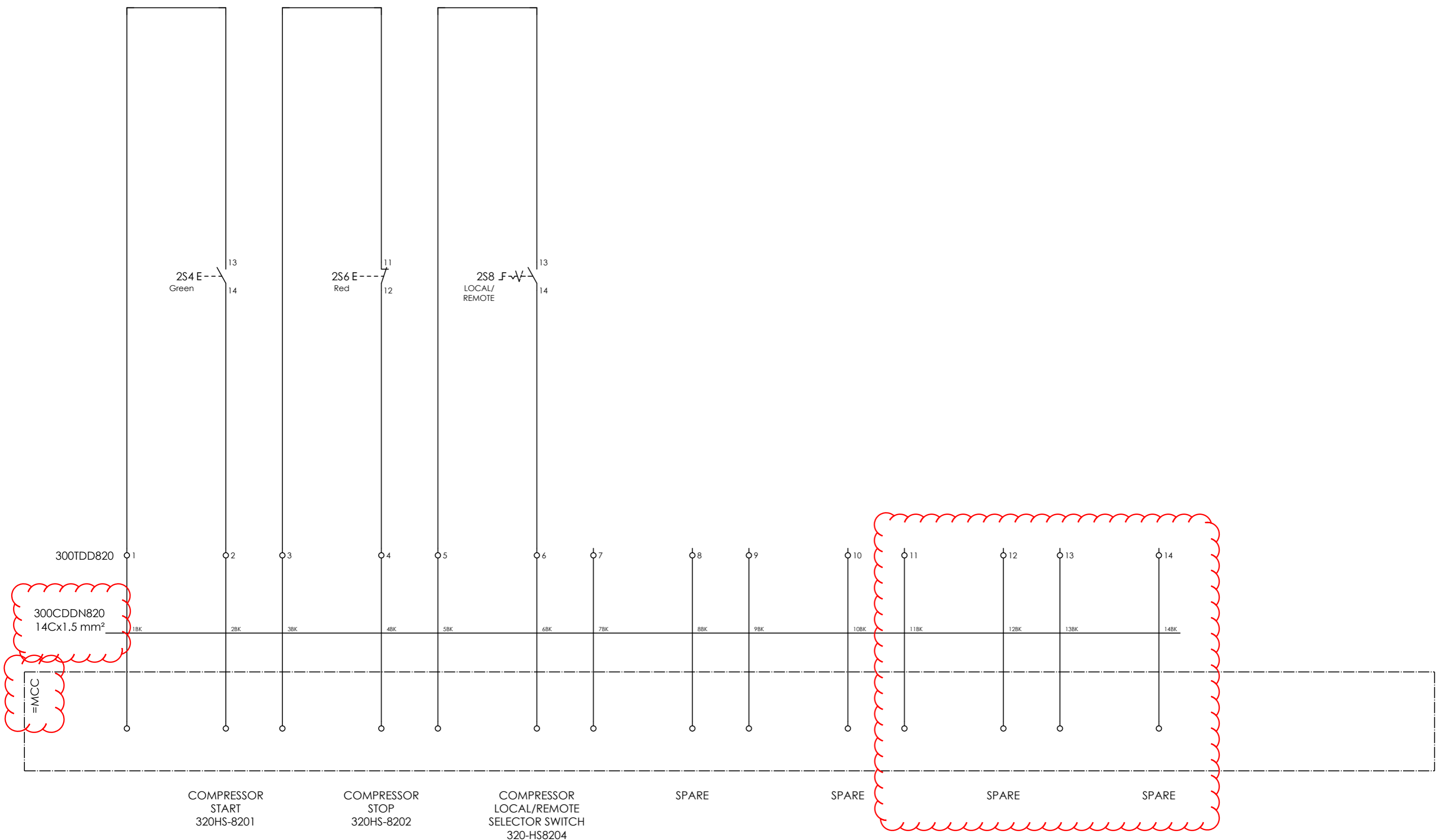
TERMINAL STRIP DEFINITION

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
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		AIRPACK REF.	17735-05 Wiring Diagram	REVISION	05	
				TOTAL PAGE AMOUNT	5	



300CDDN820
14Cx1.5 mm²

=MCC

COMPRESSOR START
320HS-8201

COMPRESSOR STOP
320HS-8202

COMPRESSOR LOCAL/REMOTE
SELECTOR SWITCH
320-HS8204

SPARE

SPARE

SPARE

SPARE

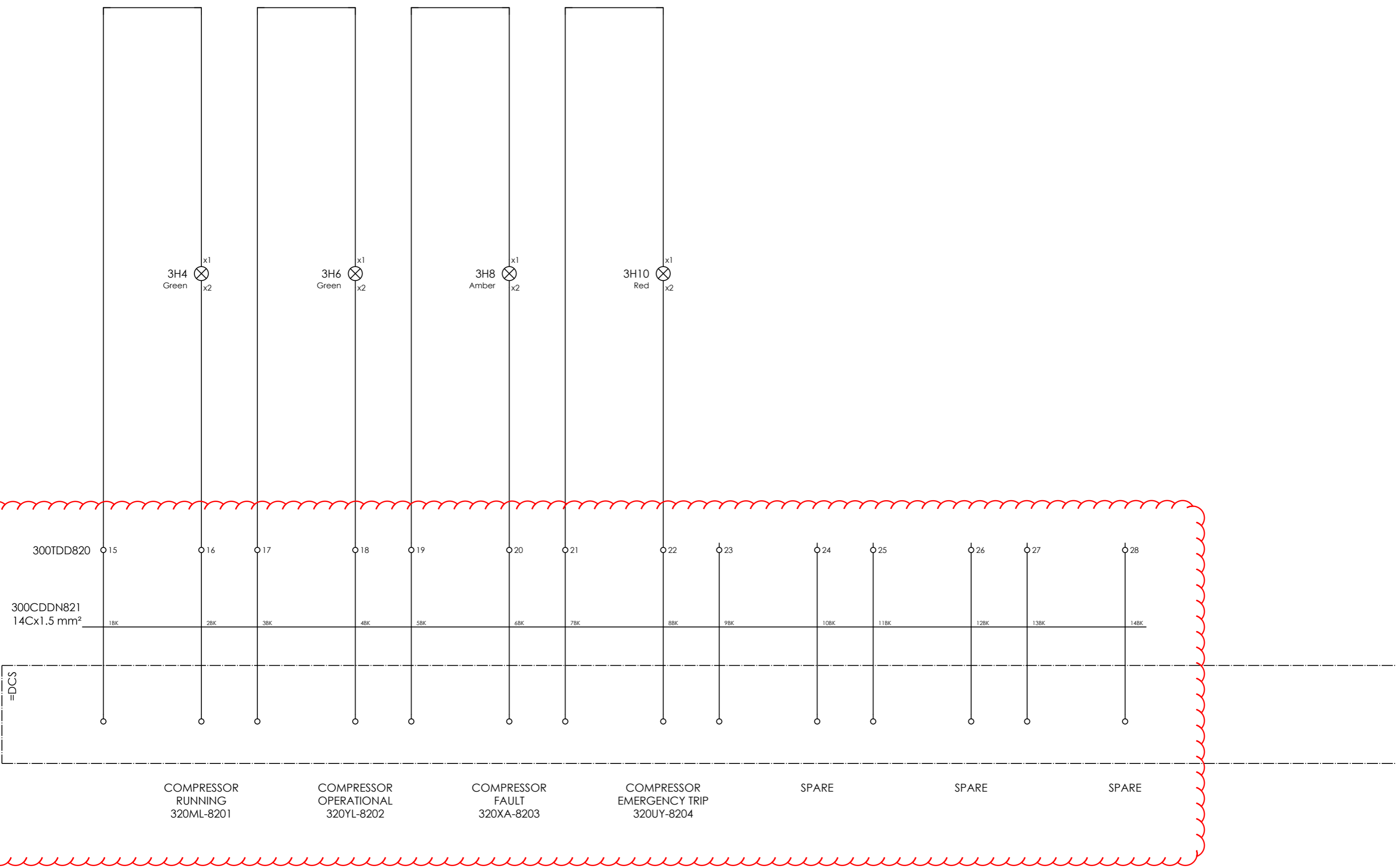


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SUBJECT PUSHBUTTONS	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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REVISION	05
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= 320-K-020
+ 300LP-820
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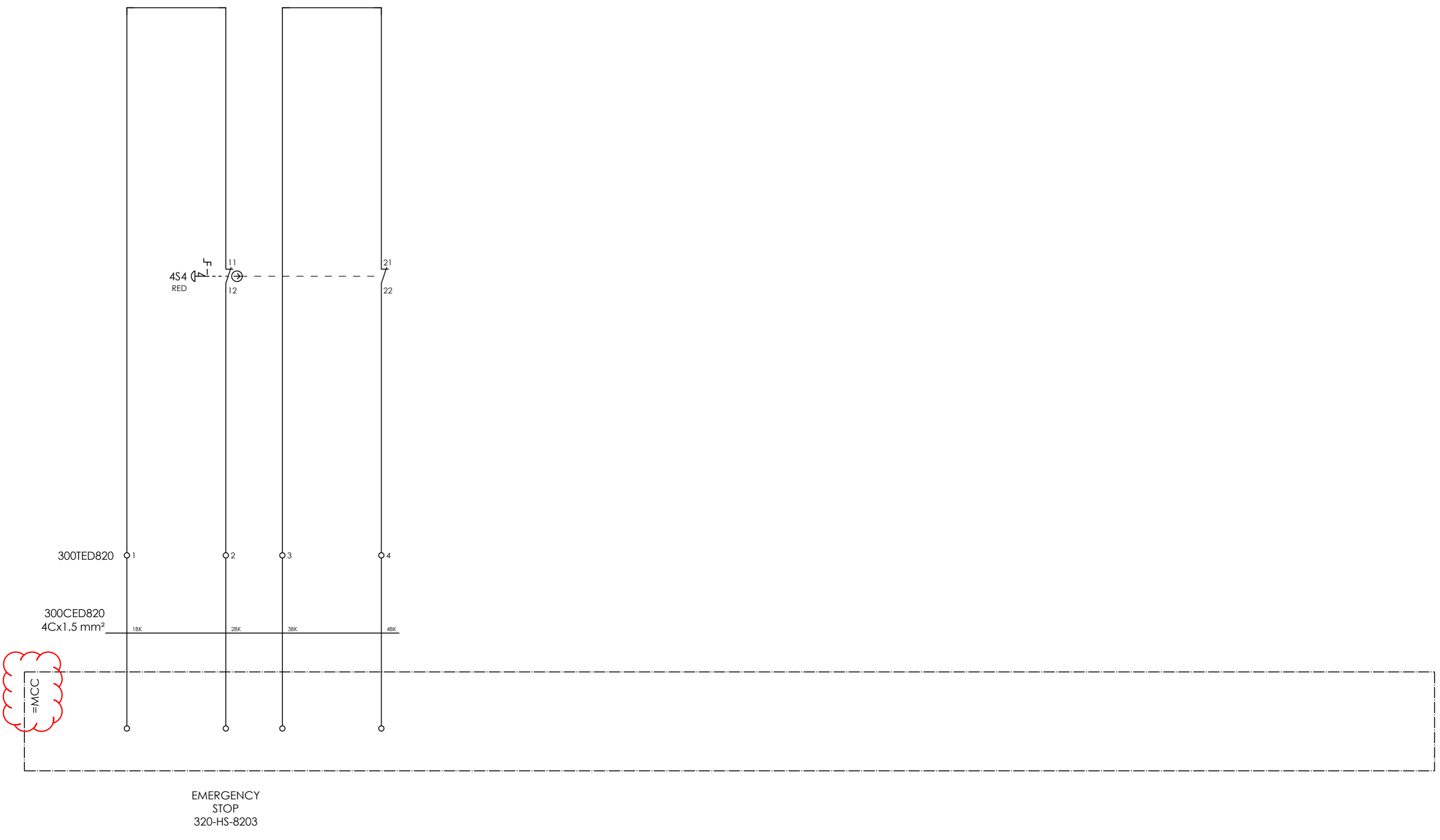


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT LAMPS	
ADAPTED TO P&ID REVISION	07
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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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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CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005
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	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	Jumper	Target designation	Connection point
-300CDDN821	14Cx1.5 mm ²	1BK				1	.	-2S4	13				
-300CDDN820	14Cx1.5 mm ²	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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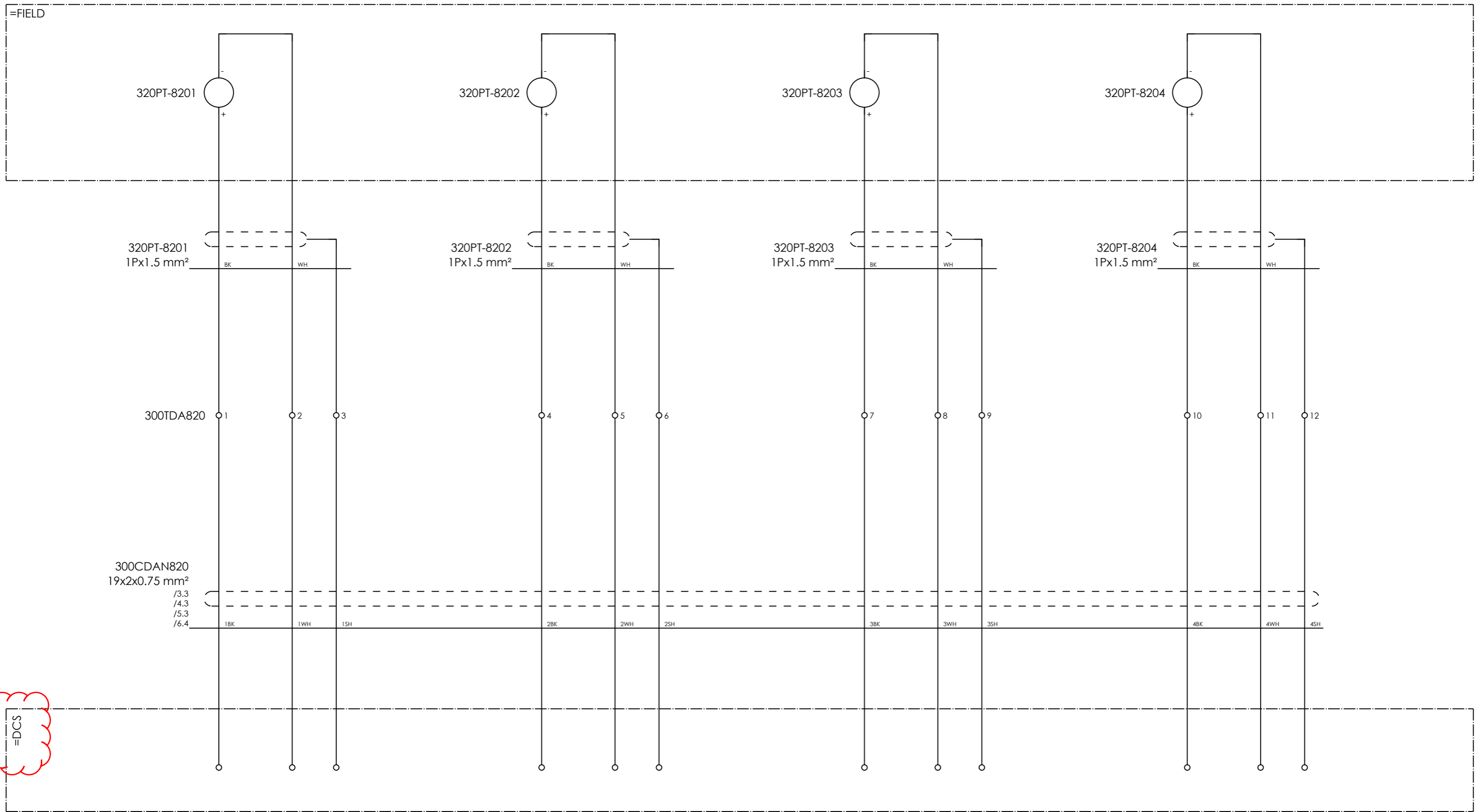
= 320-K-020
 + 300LP-820
 CURRENT PAGE

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



PRESSURE TRANSMITTER
320PT-8201

PRESSURE TRANSMITTER
320PT-8202

PRESSURE TRANSMITTER
320PT-8203

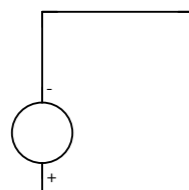
PRESSURE TRANSMITTER
320PT-8204



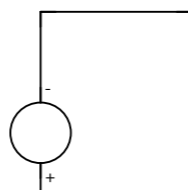
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EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	05	
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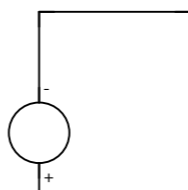
320TT-8201



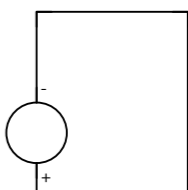
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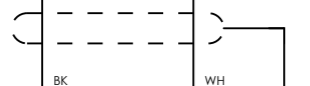
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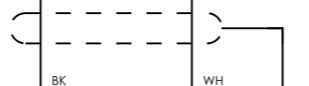
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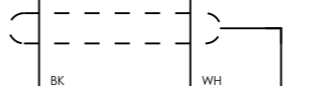
320TT-8201
1Px1.5 mm²



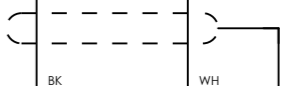
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1Px1.5 mm²



320TT-8203
1Px1.5 mm²



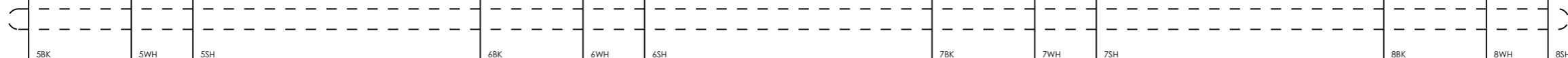
320TT-8204
1Px1.5 mm²



300TDA820



300CDAN820
19x2x0.75 mm²
/2.3
/4.3
/5.3
/6.4



=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
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
CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	05	
TOTAL PAGE AMOUNT	13	

=FIELD

320TT-8205



320TT-8205
1Px1.5 mm²

BK

WH

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

9BK

9WH

9SH

10BK

10WH

10SH

11BK

11WH

11SH

12BK

12WH

12SH

=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 mm²

/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
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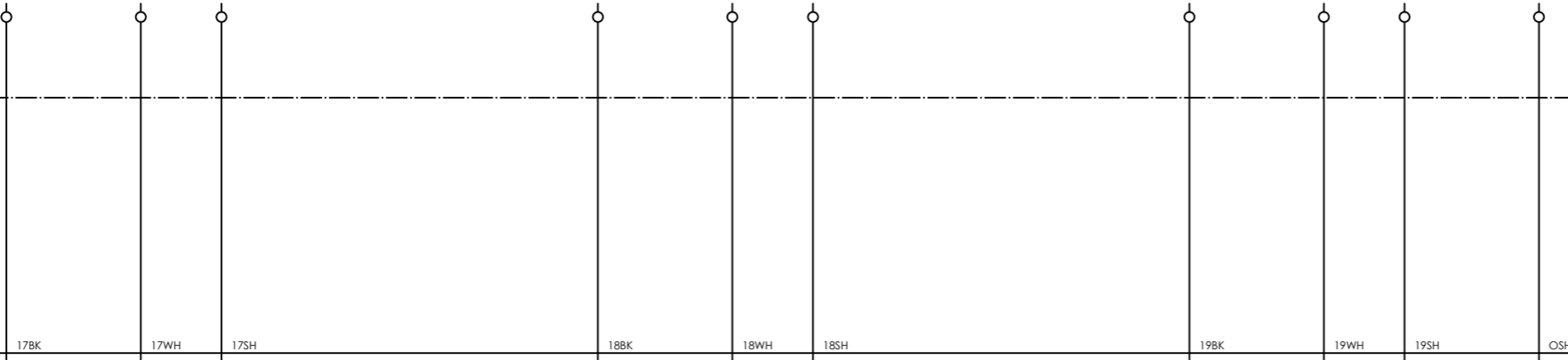
PRESSURE CONTROL VALVE
320PCV-8201

SPARE

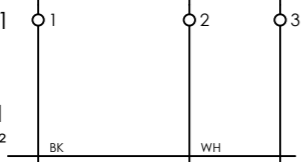
SPARE

=DCS

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



300TDA821
320PCV-8201
1Px1.5 mm²



=FIELD

