



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



Loop diagrams

Document No. 17735-30

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Loop diagrams (K020)**

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	07-12-2023	Issued for Approval	R.T.	S.K.	J.J.

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Loop diagrams

Document No. 17735-30

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
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5	X					30						55						80					
6	X					31						56						81					
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20	X					45						70						2					
21	X					46						71						3					
22	X					47						72						4					
23						48						73						5					
24						49						74						6					
25						50						75						7					



Airpack B.V.

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Client	:	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		
Equipment location	:	IRAN, ONSHORE		
Client reference	:	INTEGRATED METHANOL AND AMMONIA PLANT		
Client dwg. no.	:	N-278-VD-6019-EL-DIA-0031-01		
Airpack reference	:	17735-30 Loop Diagrams		
Airpack dwg. no.	:	17735-30		
Generation date	:	2023-12-07		
E & I manager	:	RBE	Revision no.	: 01
Last modifications	:	2023-12-07		
Last modifications by	:	RTR		



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT	
Title page / cover sheet	
ADAPTED TO P&ID REVISION	02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-12-07
AIRPACK DWG NO.	17735-30
REVISION	01
TOTAL PAGE AMOUNT	1

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+
CURRENT PAGE

COMMENTS ON ELECTRICAL DRAWINGS

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

GLANDS: SS316 GLANDS WITHOUT SHROUDS, IP-66
 CABLE TRAYS: 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


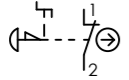


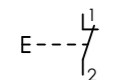
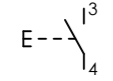


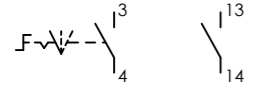
SIGNAL PAIRS

CURRENT LOOPS	POSITIVE: RED NEGATIVE: BLACK
VOLT [FREE] CONTACTS	POSITIVE: BLACK NEGATIVE: WHITE



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01	SUBJECT		DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Project description		CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-12-07	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.	17735-30	
		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	01	
		AIRPACK REF.	17735-30 Loop Diagrams	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		

320-LPS-8201

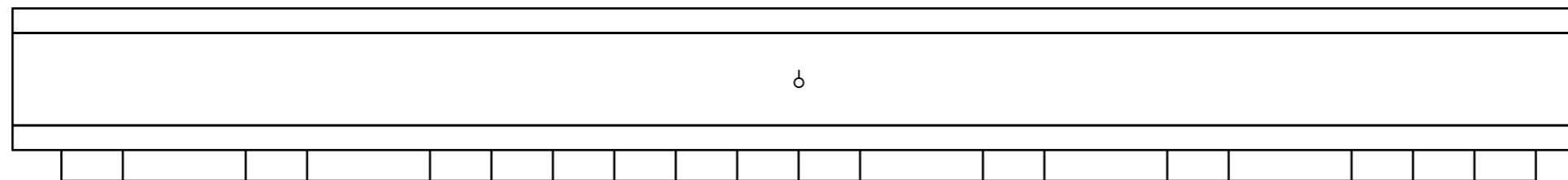
LOCAL PUSHBUTTON STATION



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	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
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	AIRPACK REF.	17735-30 Loop Diagrams	REVISION	01	TOTAL PAGE AMOUNT	4	

Cable connection diagram

Internal targets

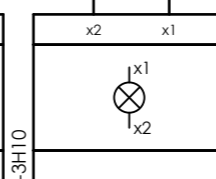
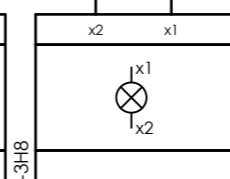
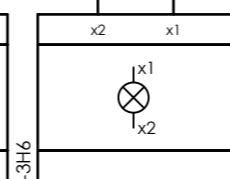
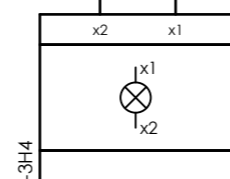
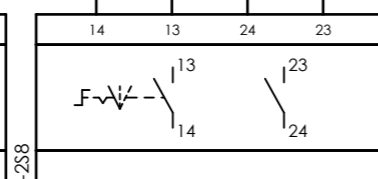
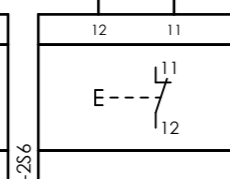
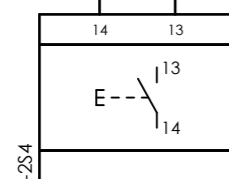
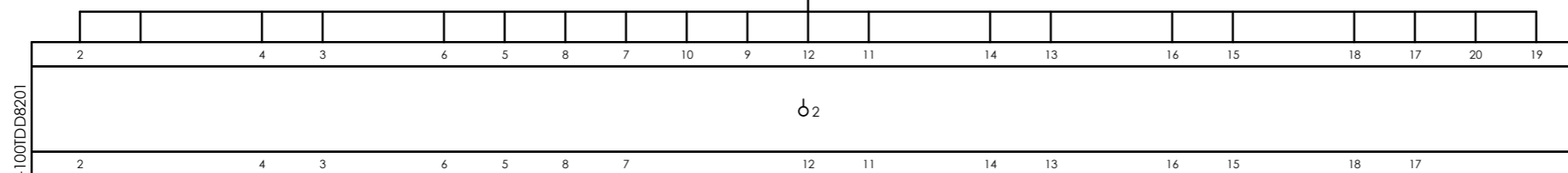


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Conductor

1BK 1RD 2BK 2RD 3BK 3RD 4BK 4RD 5BK 5RD 7BK 7RD 8BK 8RD 9BK 9RD 10BK 10RD 11BK 11RD

External targets



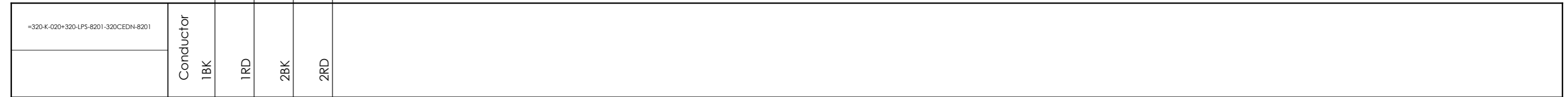
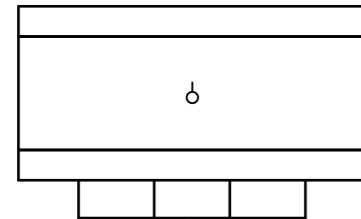
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SUBJECT		Cable-connection diagram =320-K-020+320-LPS-8201-320CDAN-8201
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	
AIRPACK REF.	17735-30 Loop Diagrams	

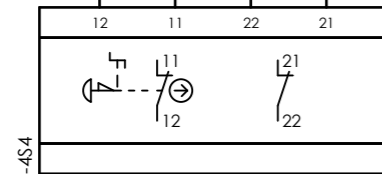
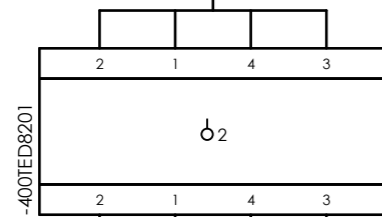
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AIRPACK DWG NO.	17735-30	
REVISION	01	
TOTAL PAGE AMOUNT	5	

Cable connection diagram

Internal targets



External targets



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CLIENT		LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		AIRPACK DWG NO.		17735-30	
CLIENT REF.		INTEGRATED METHANOL AND AMMONIA PLANT		REVISION		01	
AIRPACK REF.		17735-30 Loop Diagrams		TOTAL PAGE AMOUNT		6	

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320-JB-8201

JUNCTION BOX



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT PANEL DESCRIPTION	
ADAPTED TO P&ID REVISION	02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

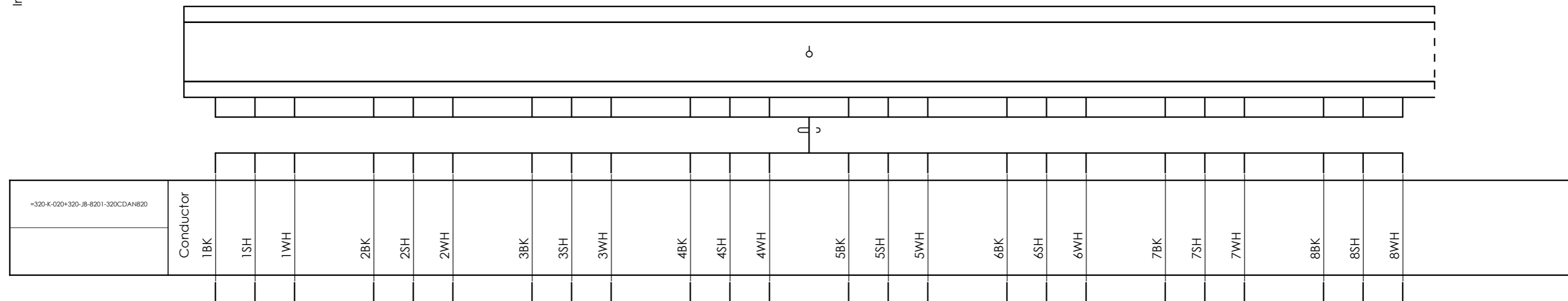
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+ 320-JB-8201
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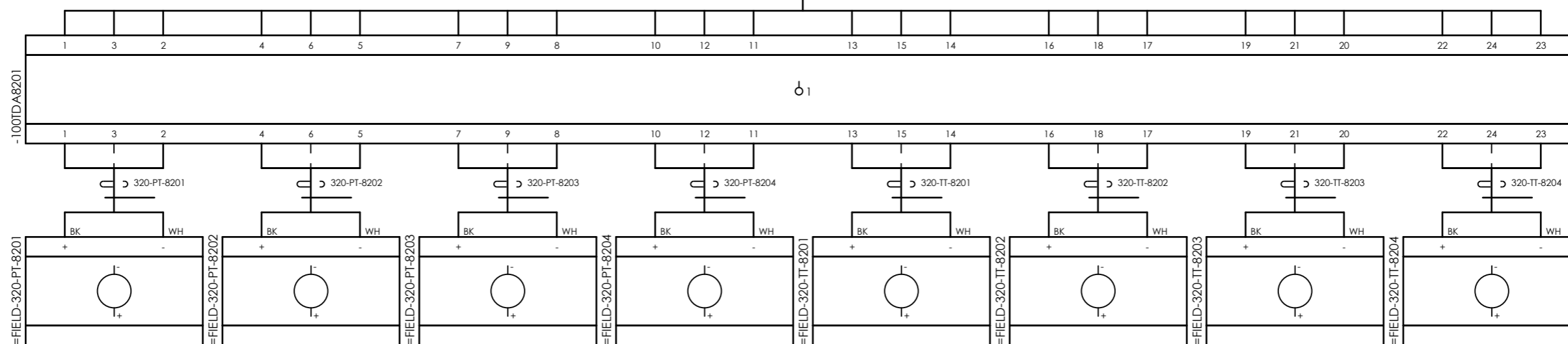
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Cable connection diagram

Internal targets



External targets



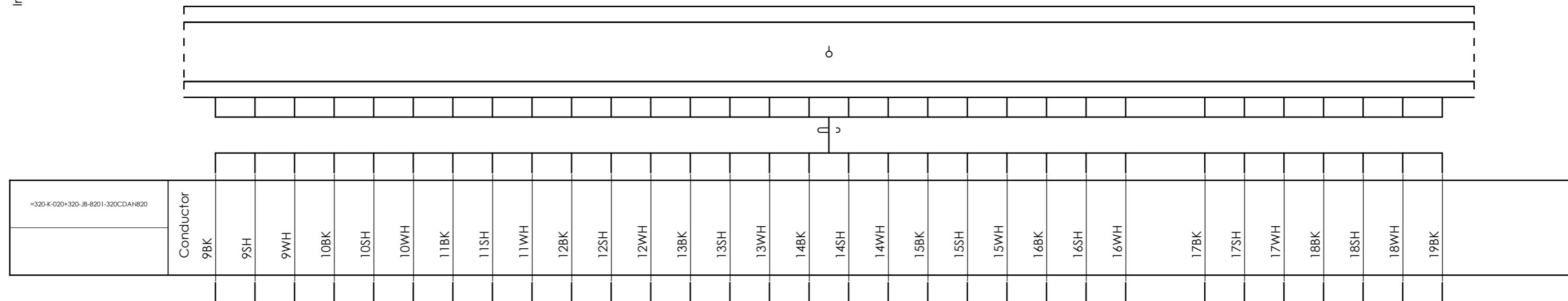
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SUBJECT		Cable-connection diagram =320-K-020+320-JB-8201-320CDAN820	
ADAPTED TO P&ID REVISION	02	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK REF.	17735-30 Loop Diagrams

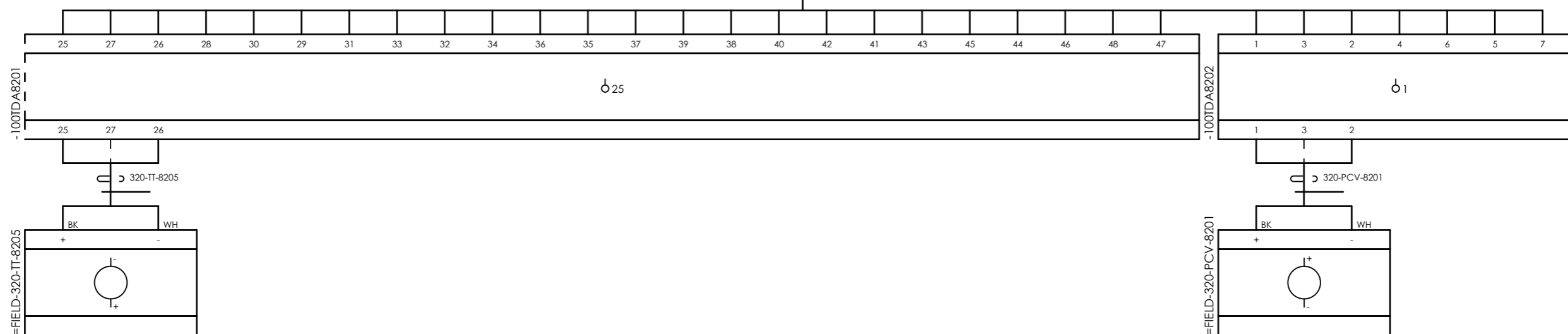
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Cable connection diagram

Internal targets



External targets



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01
EQUIPMENT NO.	320-K-020
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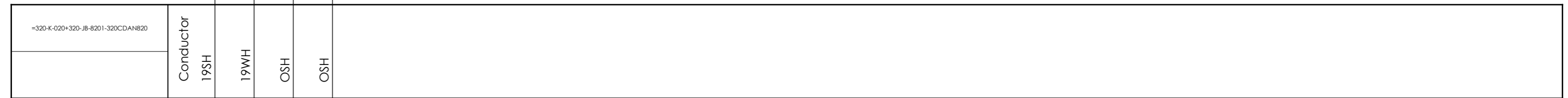
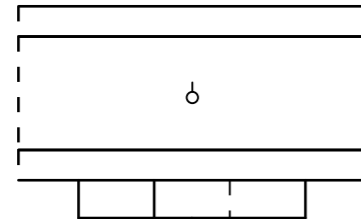
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	
AIRPACK REF.	17735-30 Loop Diagrams	

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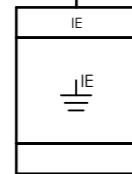
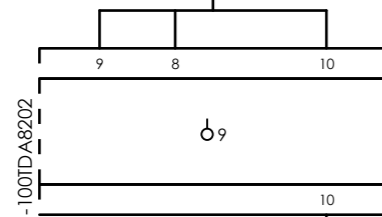
Cable connection diagram

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rtriegaardt 2023-12-07

Internal targets



External targets



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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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ADAPTED TO P&ID REVISION	02
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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Cable connection diagram

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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		01			
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Cable connection diagram

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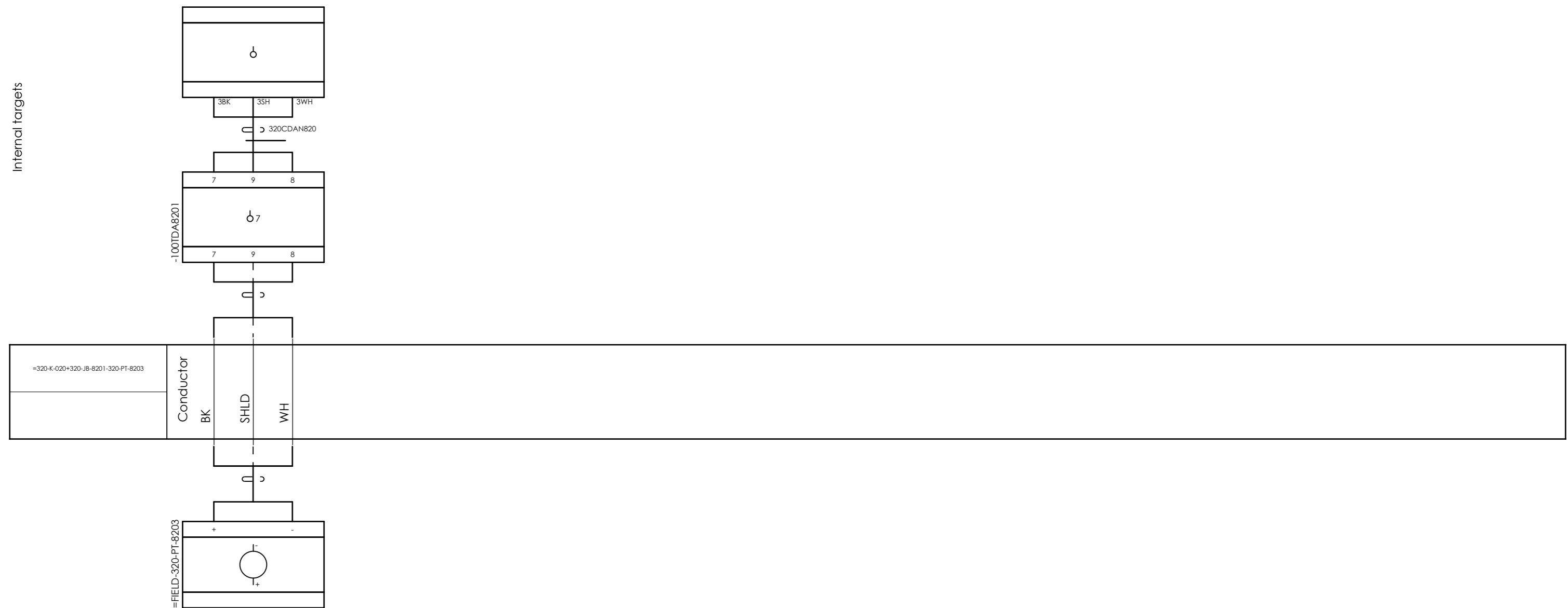
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AIRPACK REF.	17735-30 Loop Diagrams

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Cable connection diagram

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Cable connection diagram

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Cable connection diagram

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SUBJECT		DRAWN BY		RTR		= 320-K-020	
Cable-connection diagram =320-K-020+320-JB-8201-320-TT-8201		CHECKED BY		RBE		+ 320-JB-8201	
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Cable connection diagram



Cable connection diagram

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Cable connection diagram



Cable connection diagram



Cable connection diagram



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