



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



Loop diagrams

Document No. 17735-30

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
N278	VD	6019	EL	DIA	0031	01	Page 1 of 22

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

the mentioned data in This document is for cable connection Diagram so shall be changed to Loop diagram. sample of loop diagram is available in attachment file. The loop diagrams document will be checked in next revision.

code-3  
M. Vakili

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

Loop diagrams

Document No. 17735-30

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
N278	VD	6019	EL	DIA	0031	01	Page 2 of 22

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					26						51						76					
2	X					27						52						77					
3	X					28						53						78					
4	X					29						54						79					
5	X					30						55						80					
6	X					31						56						81					
7	X					32						57						82					
8	X					33						58						83					
9	X					34						59						84					
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17	X					42						67						92					
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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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The Netherlands

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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

=
+
CURRENT PAGE

# COMMENTS ON ELECTRICAL DRAWINGS

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

with shroud

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

hot deep  
galvanaized

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


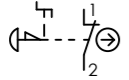


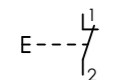
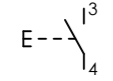


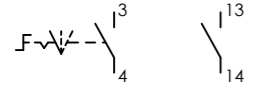


CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT Project 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

DRAWN BY	RTR	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	01	
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

Tag should be modified ,  
Refer to PID Comments



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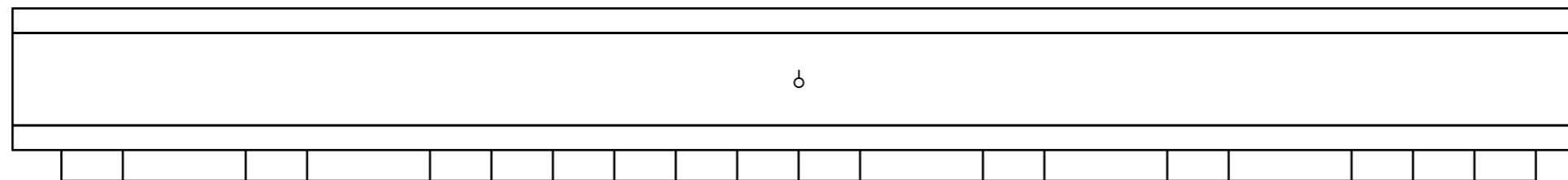
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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AIRPACK DWG NO.	17735-30
REVISION	01
TOTAL PAGE AMOUNT	4

= 320-K-020
+ 320-LPS-8201
CURRENT PAGE

# Cable connection diagram

Internal targets

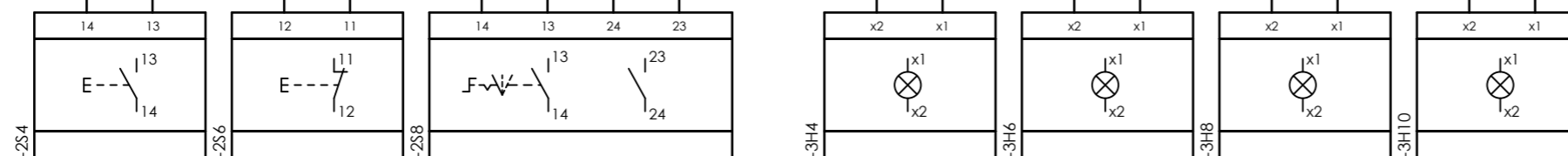
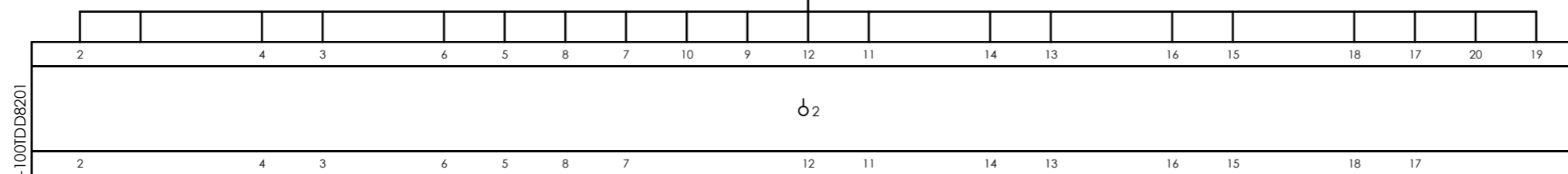


=320-K-020+320-LPS-8201-320CDAN-8201

Conductor

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

External targets



signal /command to be mentioned



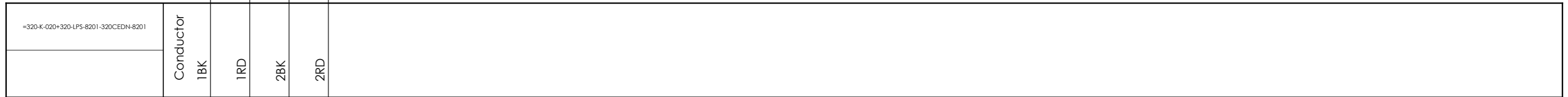
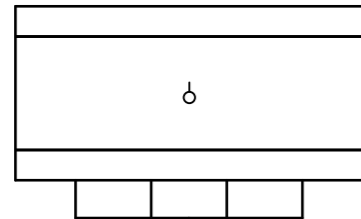
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SUBJECT		Cable-connection diagram =320-K-020+320-LPS-8201-320CDAN-8201
ADAPTED TO P&ID REVISION	02	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	
AIRPACK REF.	17735-30 Loop Diagrams	

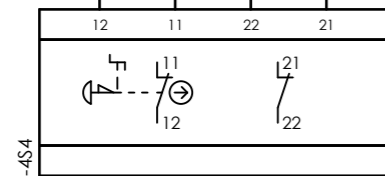
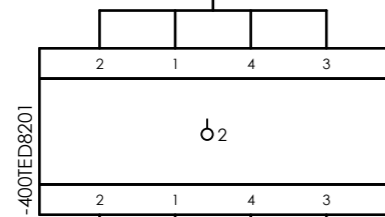
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REVISION	01	
TOTAL PAGE AMOUNT	5	

# Cable connection diagram

Internal targets



External targets



signal /command to be mentioned

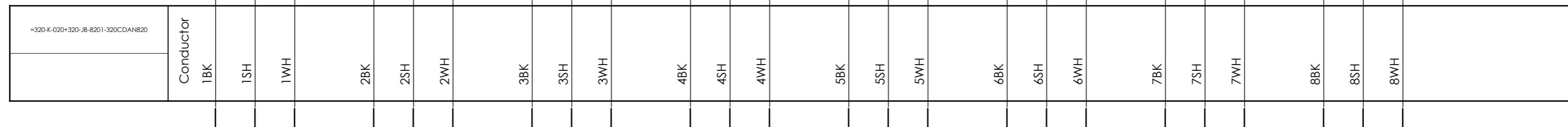
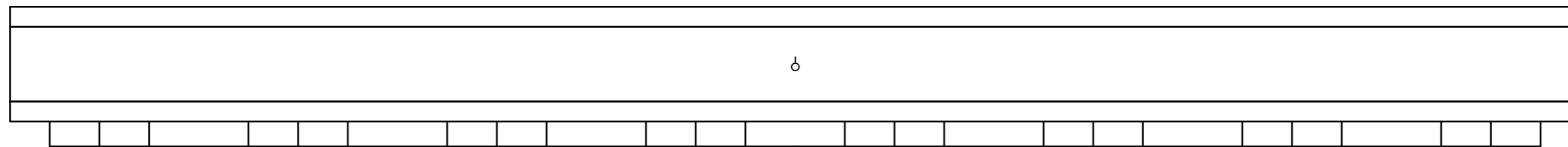
# 320-JB-8201 JUNCTION BOX



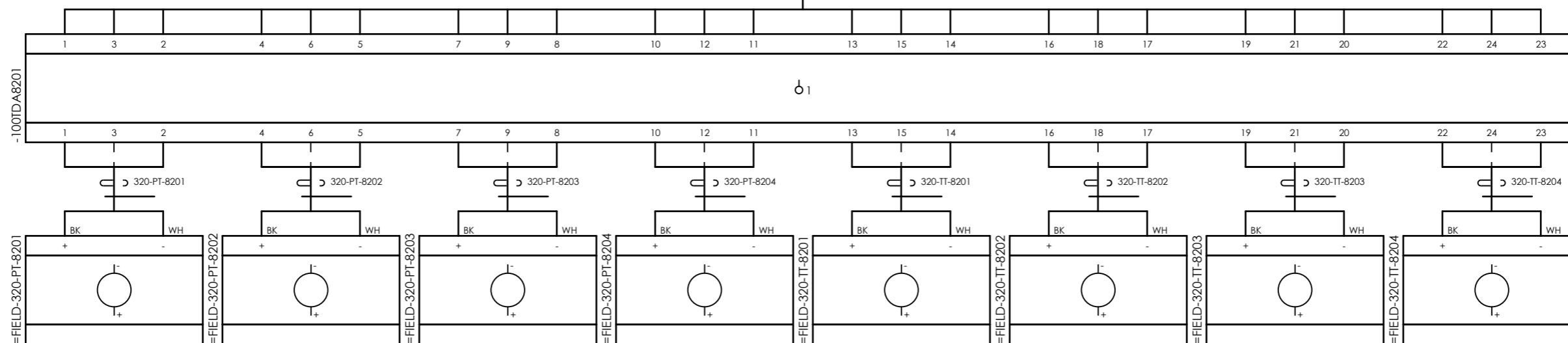
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	01	
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# Cable connection diagram

Internal targets



External targets



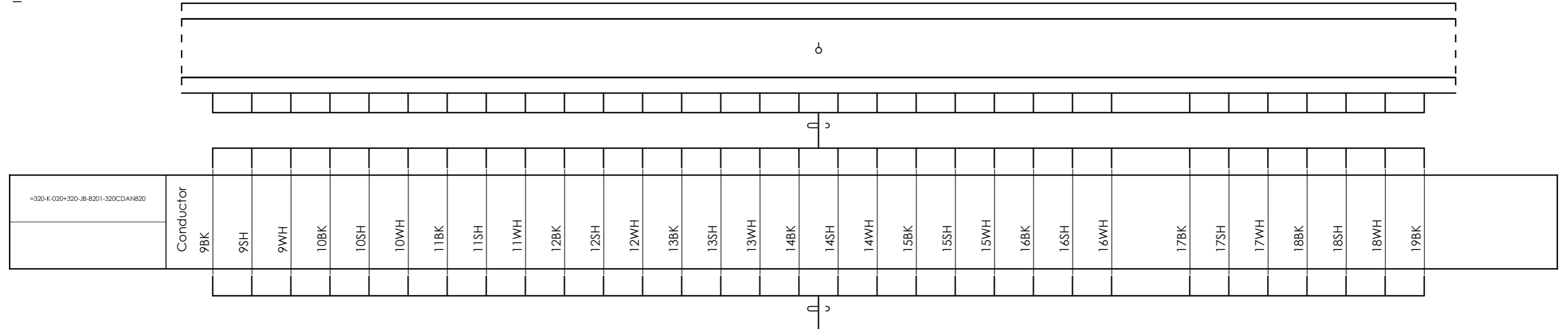
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT		Cable-connection diagram =320-K-020+320-JB-8201-320CDAN820	
ADAPTED TO P&ID REVISION	02	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK REF.	17735-30 Loop Diagrams

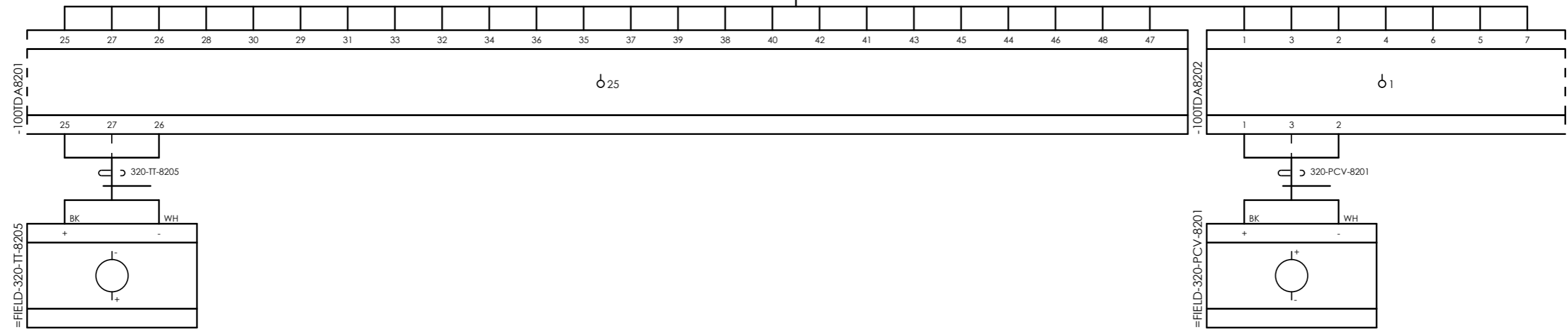
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REVISION	01	
TOTAL PAGE AMOUNT	8	

# Cable connection diagram

Internal targets



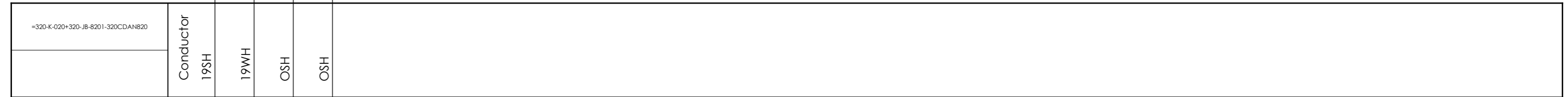
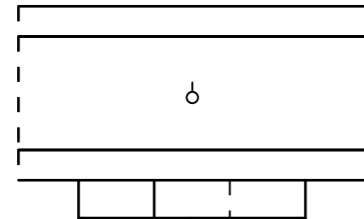
External targets



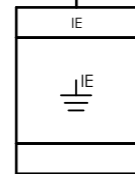
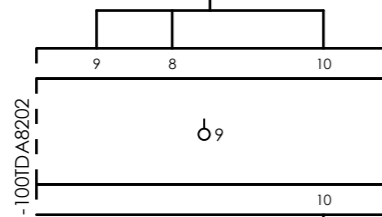
# Cable connection diagram

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Internal targets



External targets



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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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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LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	01	
TOTAL PAGE AMOUNT	10	

# Cable connection diagram

F07\_001  
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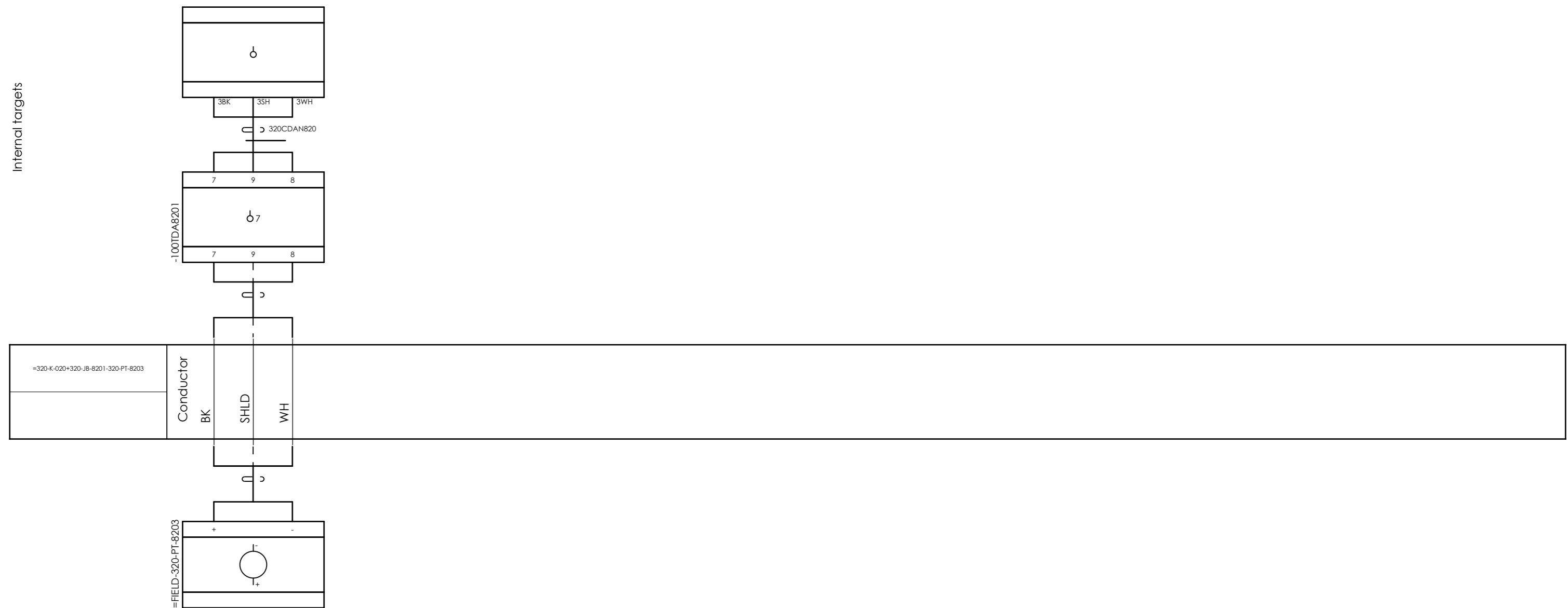
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		01			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		11			

# Cable connection diagram



# Cable connection diagram

F07\_001  
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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LAST MODIFICATION DATE	2023-12-07	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	01	
TOTAL PAGE AMOUNT	13	

# Cable connection diagram

F07\_001  
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SUBJECT		DRAWN BY		RTR		= 320-K-020	
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		01			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		14			

# 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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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		01			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		15			

# Cable connection diagram



# Cable connection diagram

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CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT		DRAWN BY		RTR	
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ADAPTED TO P&ID REVISION	02	LAST MODIFICATION DATE	2023-12-07		
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AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	17		

CURRENT PAGE	
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# Cable connection diagram



# Cable connection diagram



# Cable connection diagram

