



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	04	Page 1 of 22

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

04	30-03-2024	Issued for Approval	R.T.	S.K.	J.J.
03	14-02-2024	Issued for Approval	R.T.	S.K.	J.J.
02	21-12-2023	Issued for Approval	R.T.	S.K.	J.J.
01	07-12-2023	Issued for Approval	R.T.	S.K.	J.J.
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

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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	04	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	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					
5	X	X	X	X		30						55						80					
6	X	X	X	X		31						56						81					
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16	X	X	X	X		41						66						91					
17	X	X	X	X		42						67						92					
18	X	X	X	X		43						68						ATTACHMENT					
19	X	X	X	X		44						69						1					
20	X	X	X	X		45						70						2					
21	X	X	X	X		46						71						3					
22	X	X	X	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	
Airpack reference	:	17735-30 Loop Diagrams	
Airpack dwg. no.	:	17735-30	
Generation date	:	2023-12-07	
E & I manager	:	RBE	Revision no. : 04
Last modifications	:	2024-03-19	
Last modifications by	:	RTR	



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
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.	17735-30 Loop Diagrams

DRAWN BY	RTR	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	2024-03-19	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
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 - 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




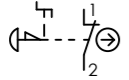


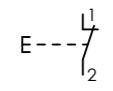
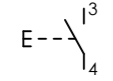


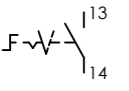
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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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.	17735-30 Loop Diagrams

DRAWN BY	RTR	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	2024-03-19	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	04	
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

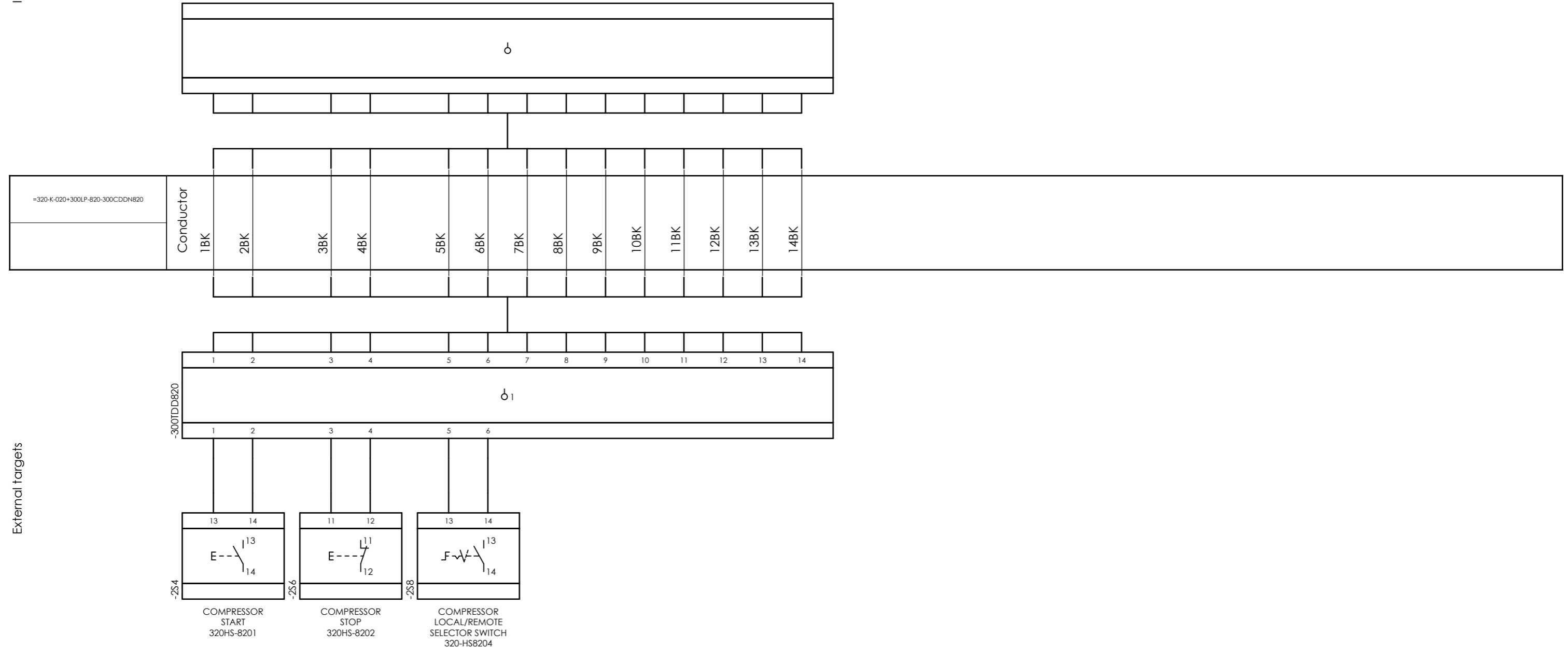
LOCAL PUSHBUTTON STATION



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	EQUIPMENT NO.	320-K-020	PANEL DESCRIPTION		CHECKED BY	RBE	+ 300LP-820
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2024-03-19	CURRENT PAGE
	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK DWG NO.	17735-30	
	AIRPACK REF.	17735-30 Loop Diagrams	REVISION	04	TOTAL PAGE AMOUNT	4	

Loop Diagrams

Internal targets



External targets



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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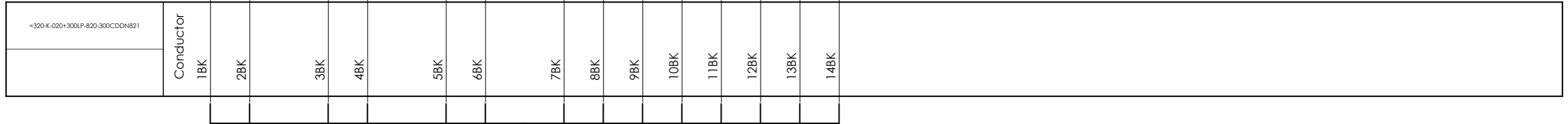
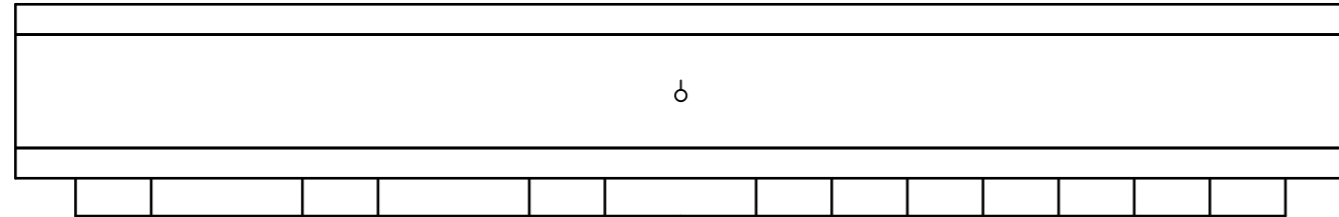
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ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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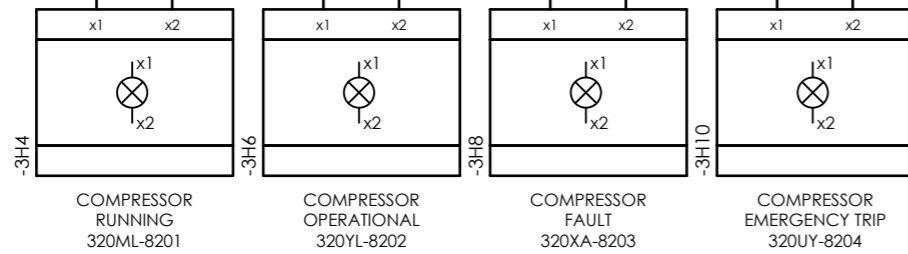
= 320-K-020
+ 300LP-820
CURRENT PAGE

Loop Diagrams

Internal targets



External targets

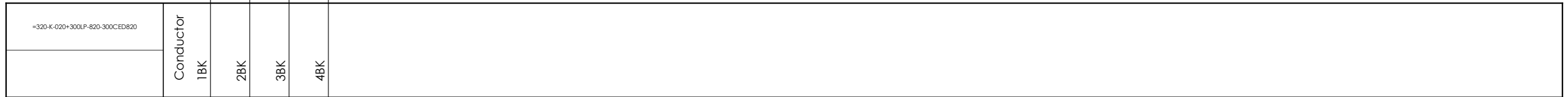
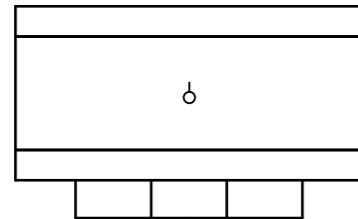


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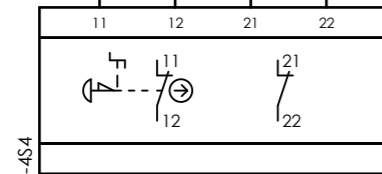
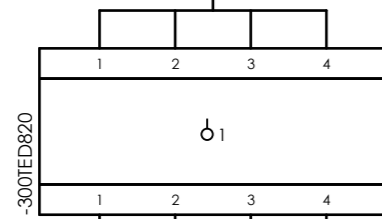
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	04	
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	6	

Loop Diagrams

Internal targets



External targets



EMERGENCY
STOP
320-HS-8203



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		04			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		7			

300JDAN-820 JUNCTION BOX



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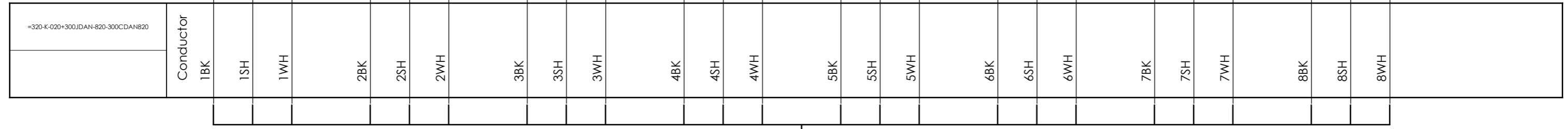
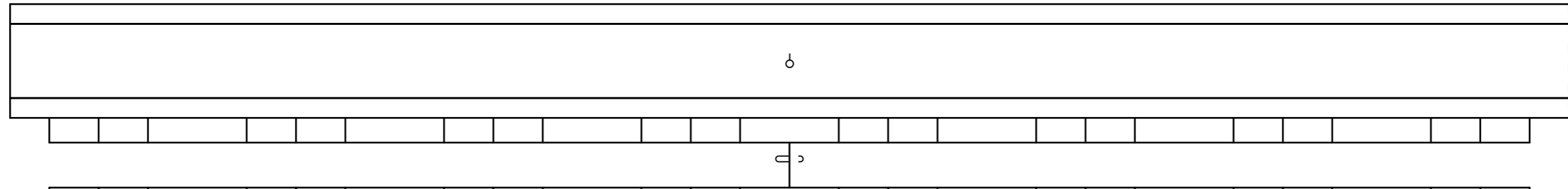
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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REVISION	04
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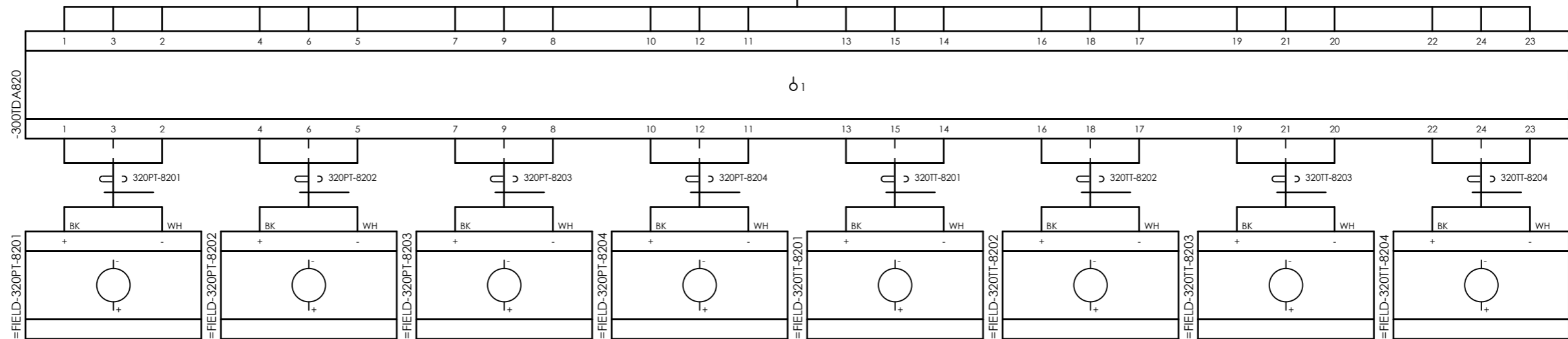
= 320-K-020
+ 300JDAN820
CURRENT PAGE

Loop Diagrams

Internal targets



External targets



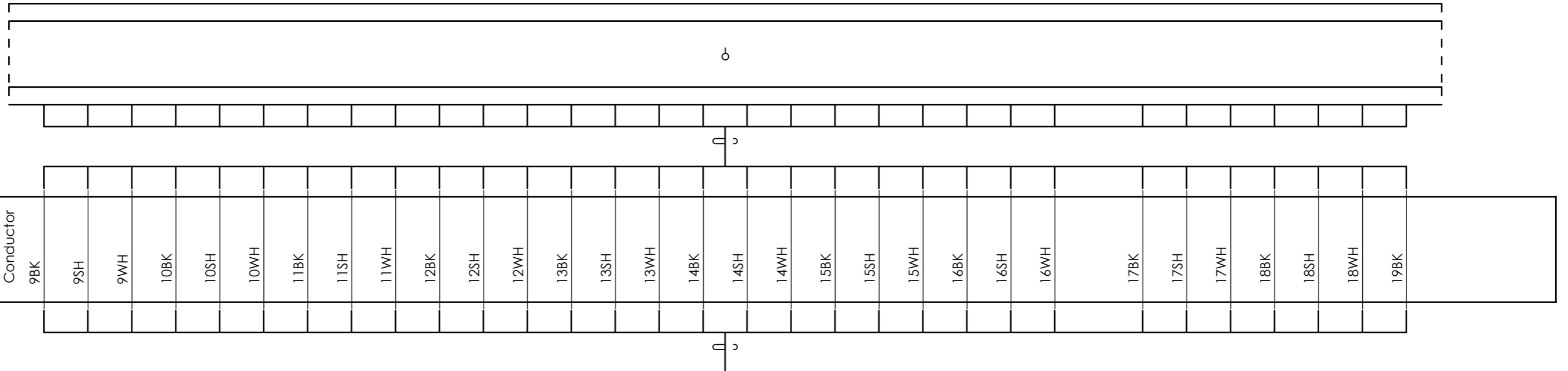
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SUBJECT		Cable-connection diagram =320-K-020+300JDAN-820-300CDAN820	
ADAPTED TO P&ID REVISION	07	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK REF.	17735-30 Loop Diagrams

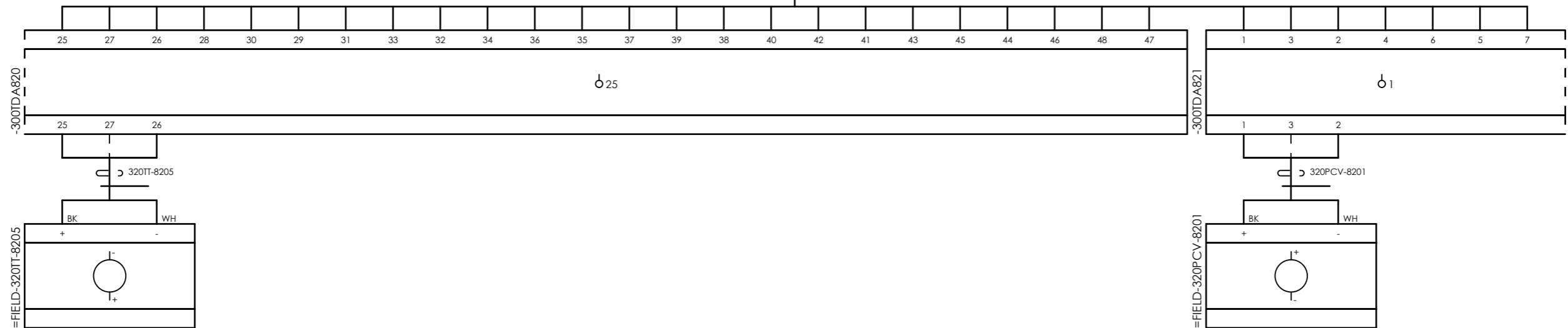
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Loop Diagrams

Internal targets



External targets



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT		Cable-connection diagram =320-K-020+300JDAN-820-300CDAN820	
ADAPTED TO P&ID REVISION	07		
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT		
AIRPACK REF.	17735-30 Loop Diagrams		

DRAWN BY	RTR	= 320-K-020
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AIRPACK DWG NO.	17735-30	
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Loop Diagrams

Internal targets



External targets



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
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Cable-connection diagram =320-K-020+300JDAN-820-300CDAN820		= 320-K-020		+ 300JDAN820	
ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2024-03-19		
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-30		
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AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	11		

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Loop Diagrams



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
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	07	LAST MODIFICATION DATE	2024-03-19	CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-30		
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	04		
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	12		

Loop Diagrams



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ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE		2024-03-19		CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
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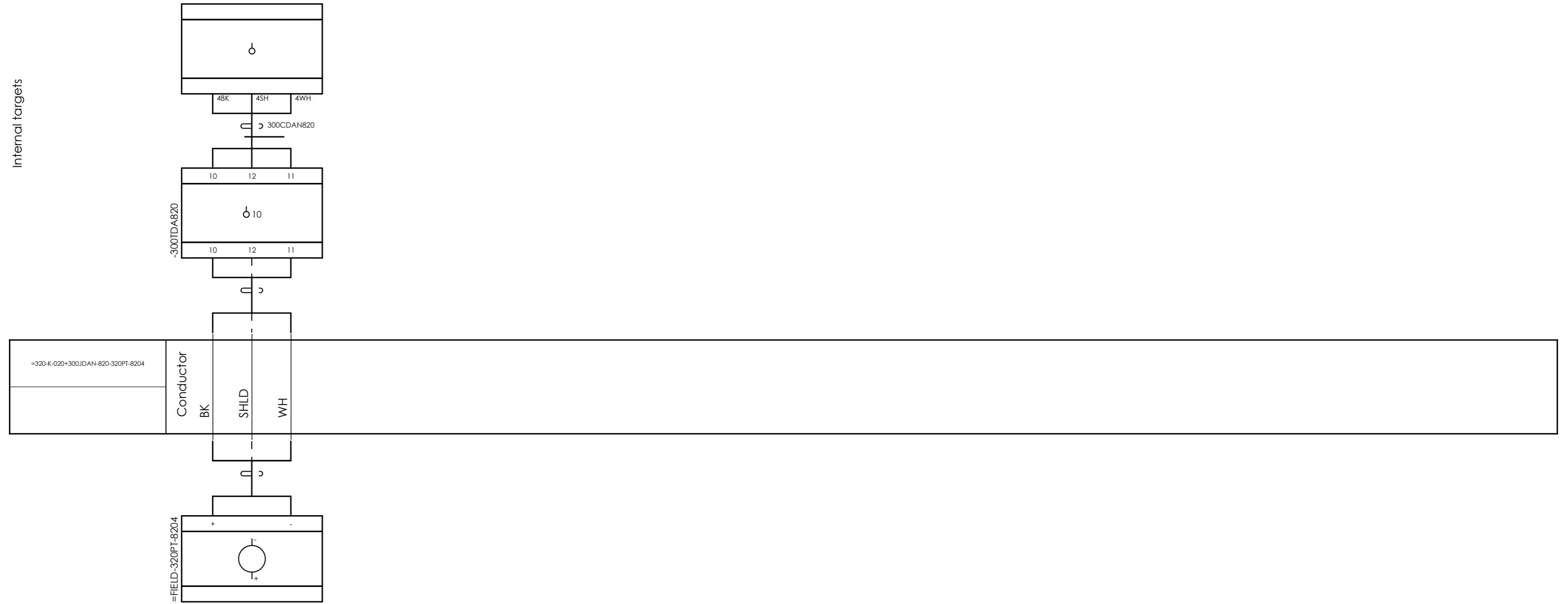
Loop Diagrams



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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	TOTAL PAGE AMOUNT	14	CURRENT PAGE	
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Loop Diagrams



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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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Loop Diagrams

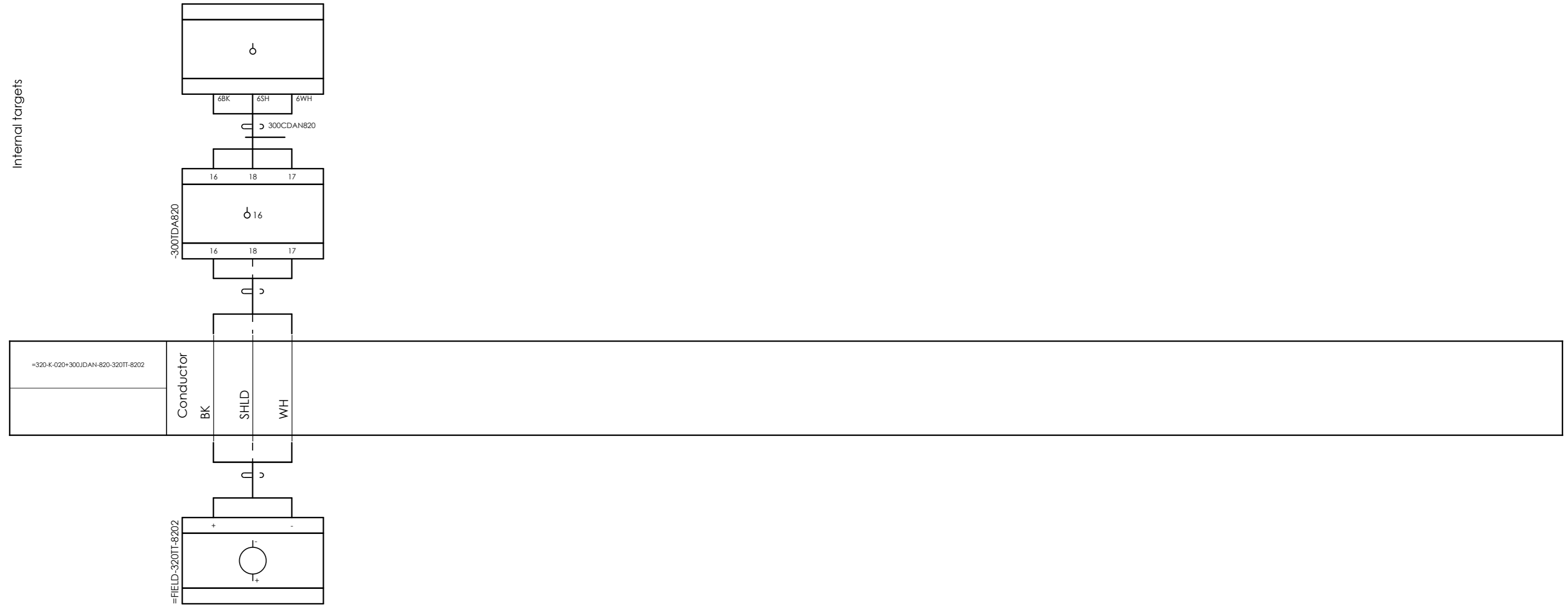


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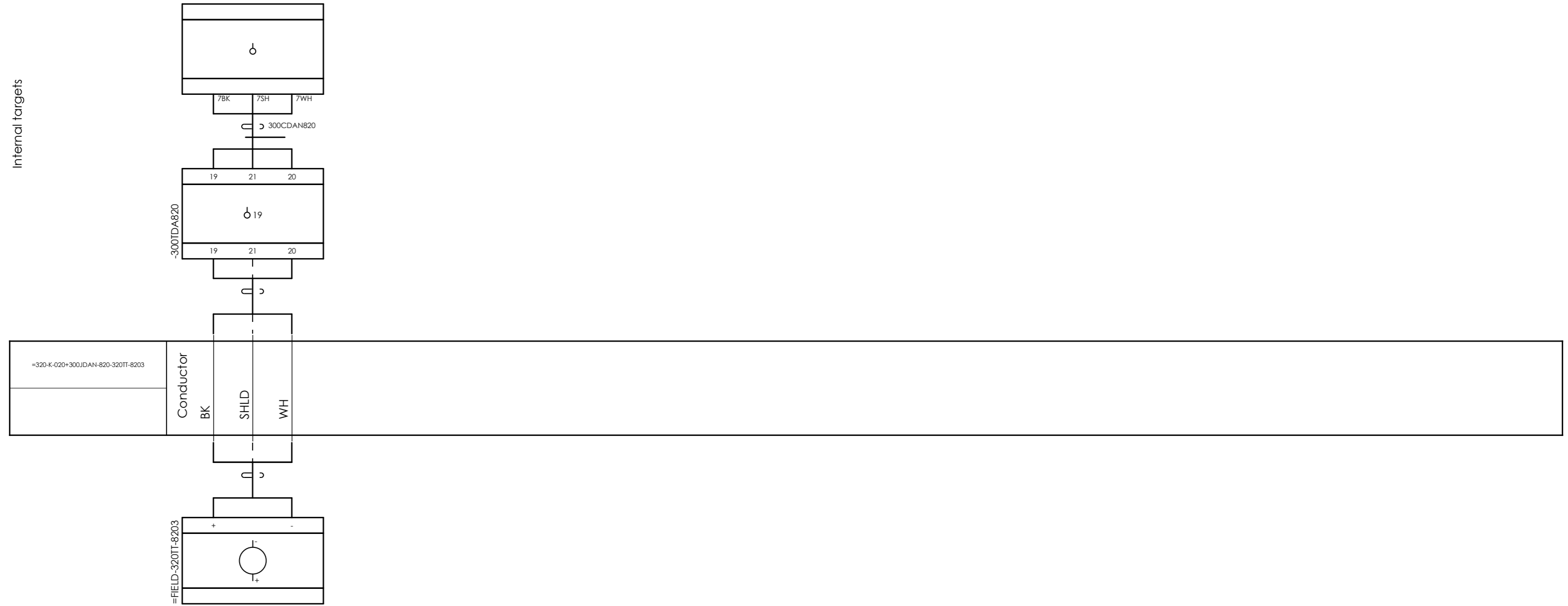
Loop Diagrams



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Cable-connection diagram =320-K-020+300JDAN-820-320TT-8202		CHECKED BY		RBE		+ 300JDAN820	
ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE		2024-03-19		CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		04			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		17			

Loop Diagrams



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT		DRAWN BY		RTR		= 320-K-020	
Cable-connection diagram =320-K-020+300JDAN-820-320TT-8203		CHECKED BY		RBE		+ 300JDAN820	
ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE		2024-03-19		CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		04			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		18			

Loop Diagrams



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT Cable-connection diagram =320-K-020+300JDAN-820-320TT-8204	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300JDAN820
LAST MODIFICATION DATE	2024-03-19	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	04	
TOTAL PAGE AMOUNT	19	

Loop Diagrams



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT Cable-connection diagram =320-K-020+300JDAN-820-320TT-8205	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300JDAN820
LAST MODIFICATION DATE	2024-03-19	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	04	
TOTAL PAGE AMOUNT	20	

Loop Diagrams



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

SUBJECT	
Cable-connection diagram =320-K-020+300JDAN-820-320PCV-8201	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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CHECKED BY	RBE
LAST MODIFICATION DATE	2024-03-19
AIRPACK DWG NO.	17735-30
REVISION	04
TOTAL PAGE AMOUNT	21

= 320-K-020
+ 300JDAN820
CURRENT PAGE