

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	06	Page 1 of 24

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

Code 2
M.Dalakeh

06	02-05-2024	Issued for Approval	R.T.	S.K.	J.J.
05	18-04-2024	Issued for Approval	R.T.	S.K.	J.J.
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

Loop diagrams

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N278	VD	6019	EL	DIA	0031	06	Page 2 of 24

LIST OF REVISED PAGES

Rev. Page	01	02	03	04	05	06	07	08	09	10	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05
1	X	X	X	X	X	X					51						76					
2	X	X	X	X	X	X					52						77					
3	X	X	X	X	X	X					53						78					
4	X	X	X	X	X	X					54						79					
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17	X	X	X	X	X	X					67						92					
18	X	X	X	X	X	X					68						ATTACHMENT					
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20	X	X	X	X	X	X					70						2					
21	X	X	X	X	X	X					71						3					
22	X	X	X	X	X	X					72						4					
23						X					73						5					
24						X					74						6					
25											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		
Airpack reference	:	17735-30 Loop Diagrams		
Airpack dwg. no.	:	17735-30		
Generation date	:	2023-12-07		
E & I manager	:	RBE	Revision no.	: 06
Last modifications	:	2024-05-02		
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	08
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	2024-05-02	
AIRPACK DWG NO.	17735-30	
REVISION	06	
TOTAL PAGE AMOUNT	1	

CURRENT PAGE	1
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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:


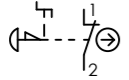


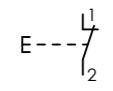
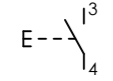


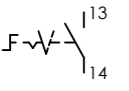
- 17735-03 - N-278-VD-6019-PR-PID-0002 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022 - Control Philosophy

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



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	EQUIPMENT NO.	320-K-020	Project description		CHECKED BY	RBE	+
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE	2024-05-02	CURRENT PAGE
			CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-30	
			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	06	
		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		

300LP-820

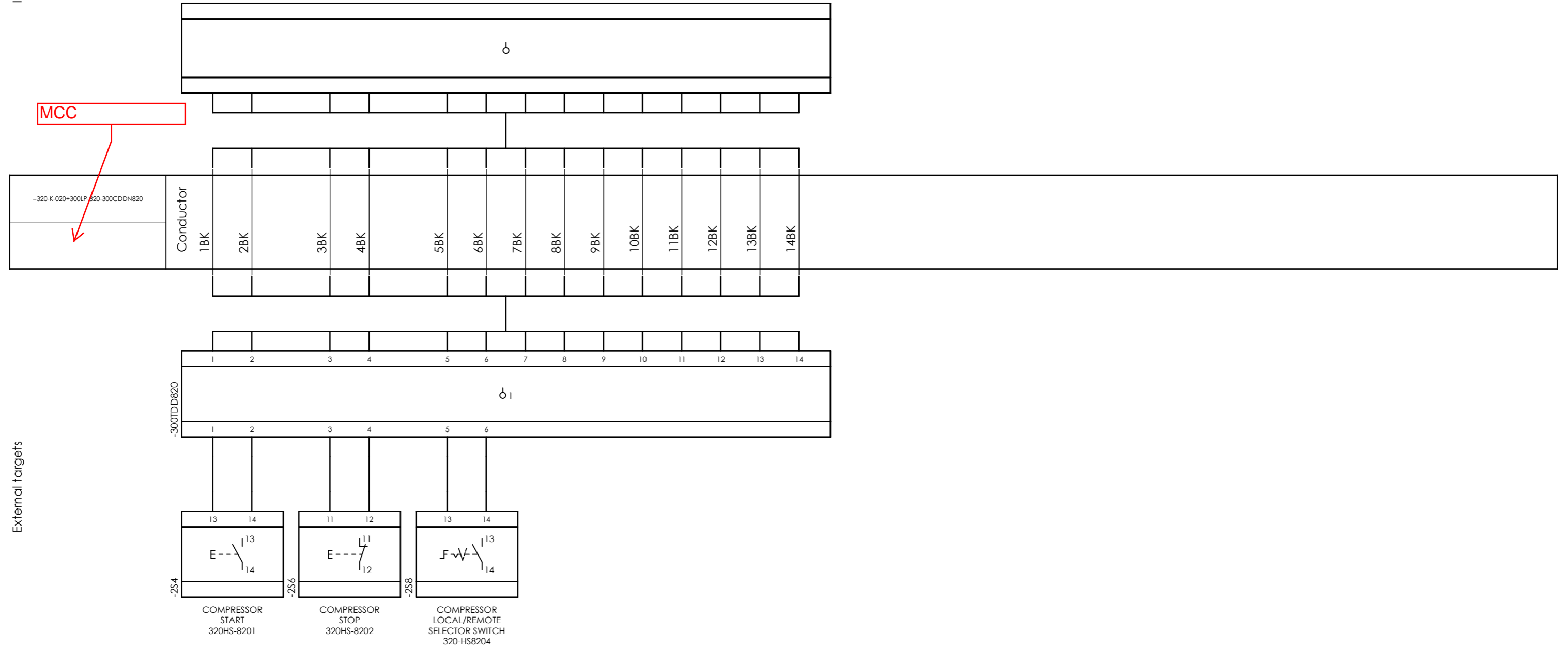
LOCAL PUSHBUTTON STATION



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	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE	2024-05-02	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	06	TOTAL PAGE AMOUNT	4	

Loop Diagrams

Internal targets



External targets

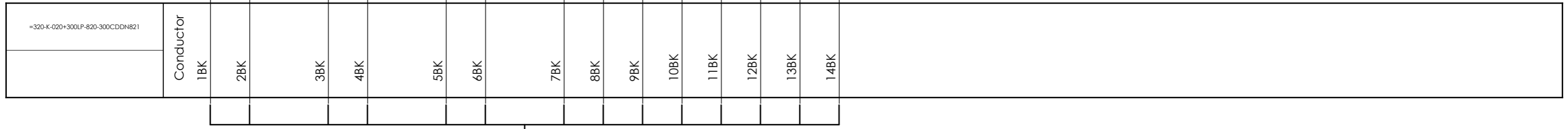
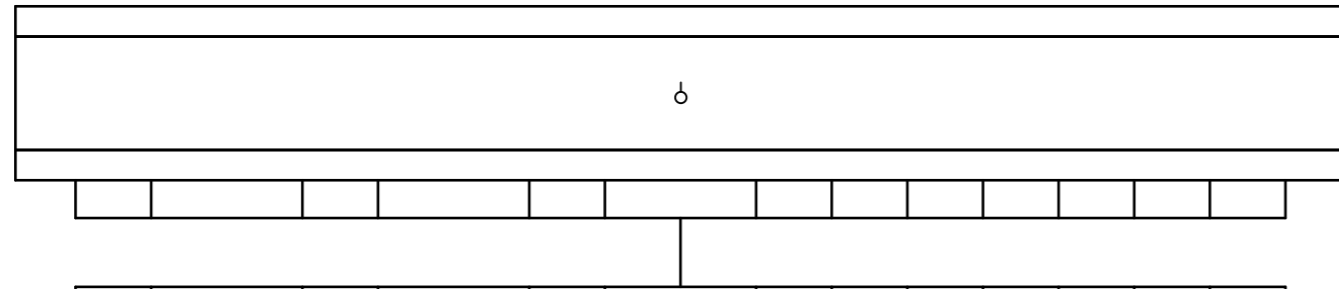


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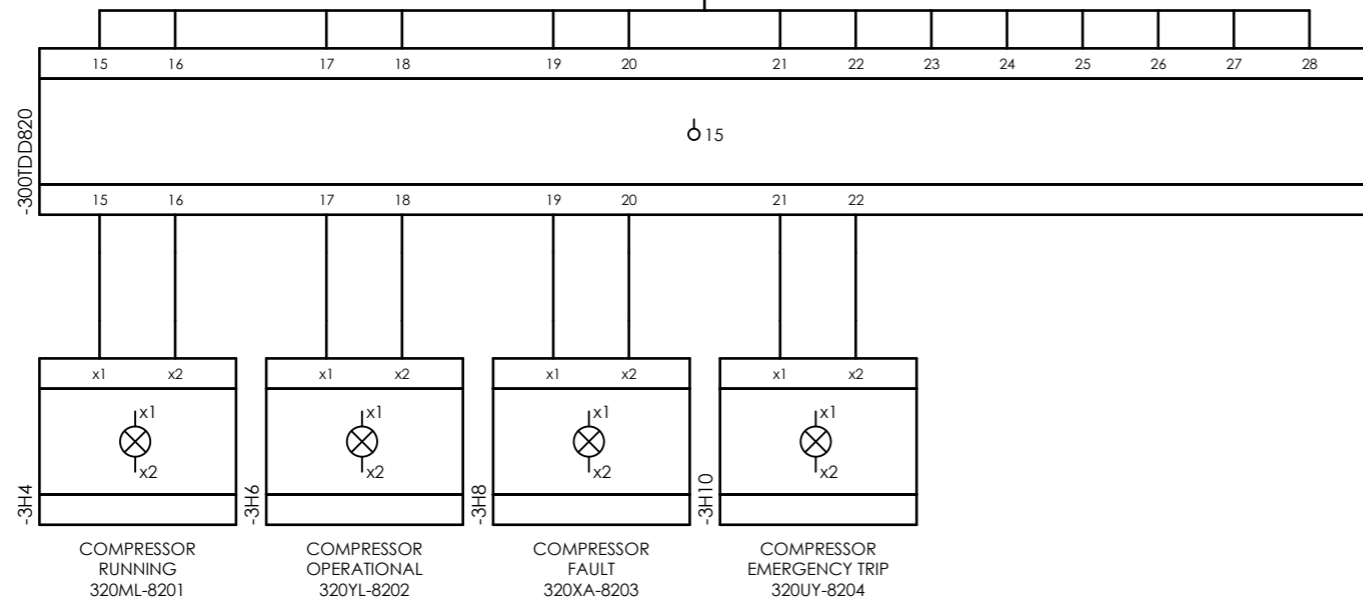
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		06			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		5			

Loop Diagrams

Internal targets



External targets



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EQUIPMENT NO.	320-K-020
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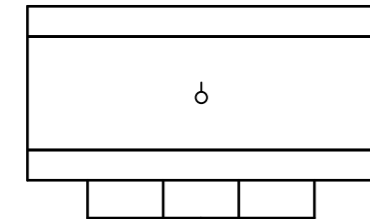
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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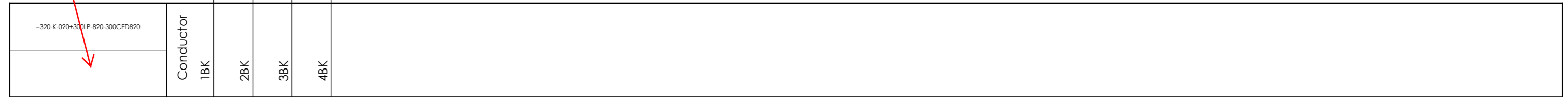
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+ 300LP-820
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Loop Diagrams

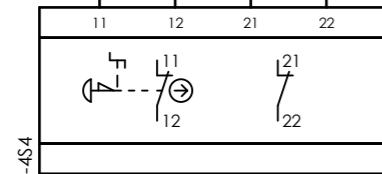
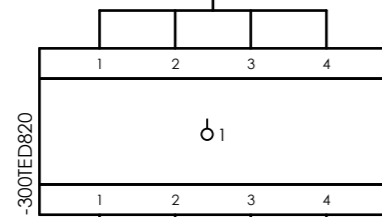
Internal targets



MCC



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 REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		06			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		7			

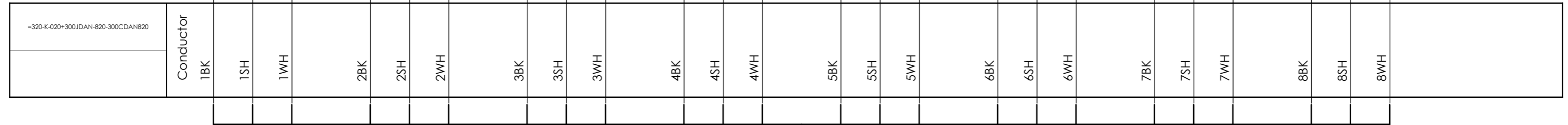
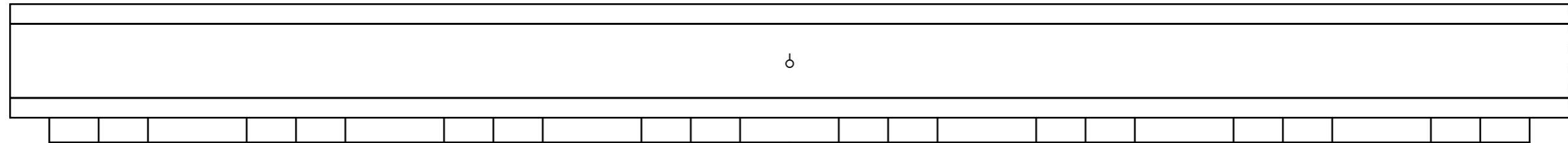
300JDAN-820 JUNCTION BOX



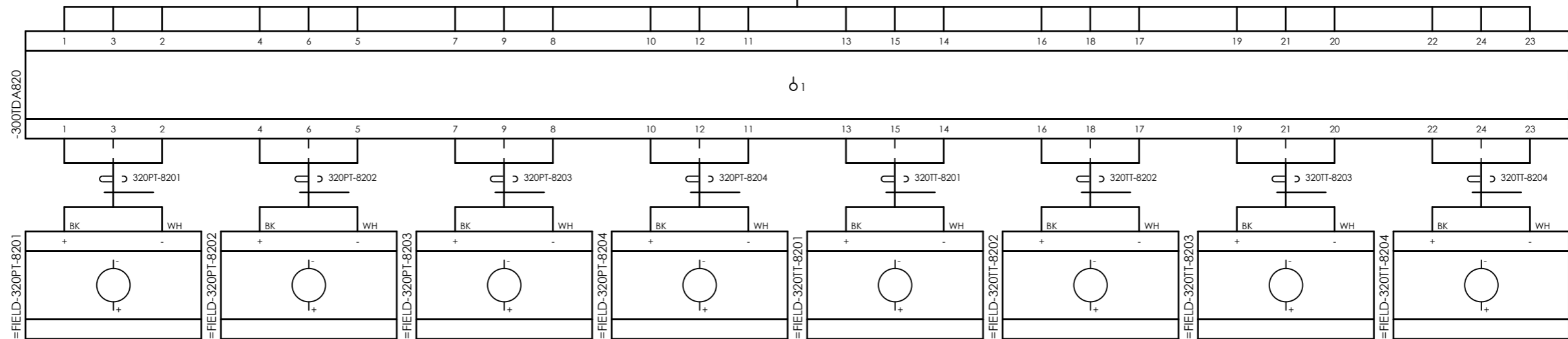
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	06	
		AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	8	

Loop Diagrams

Internal targets



External targets

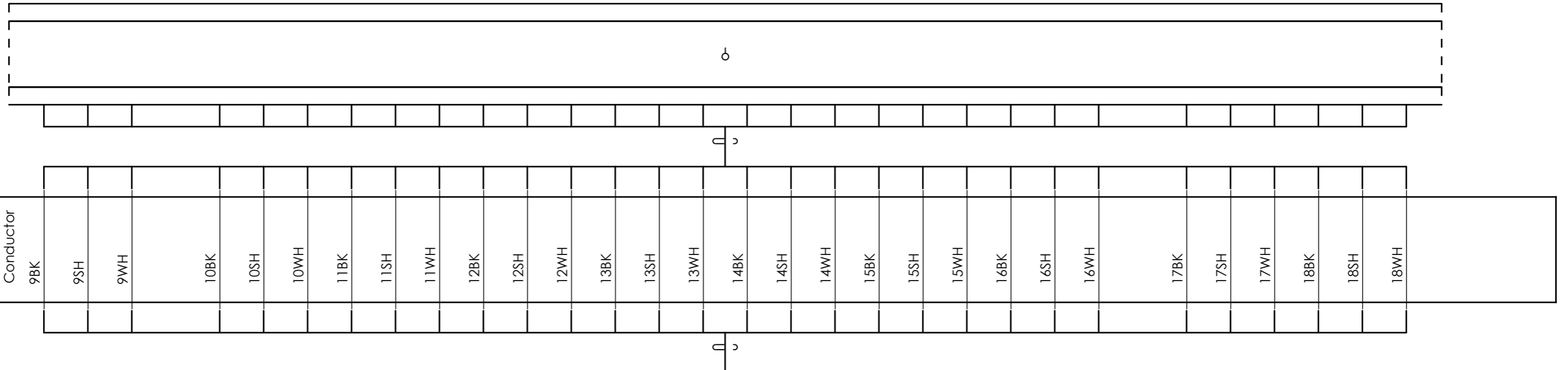


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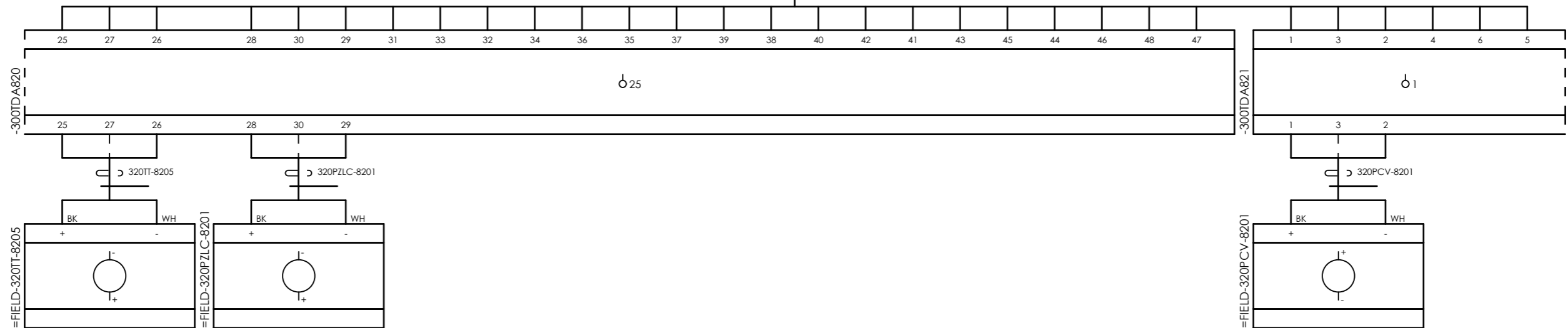
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ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE		2024-05-02		CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		06			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		9			

Loop Diagrams

Internal targets



External targets



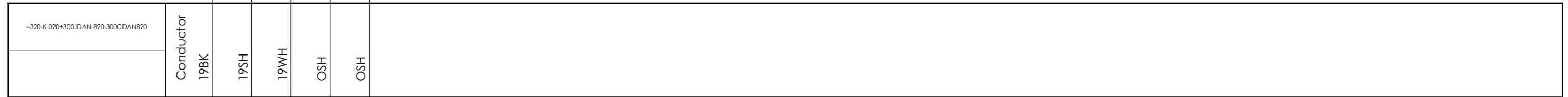
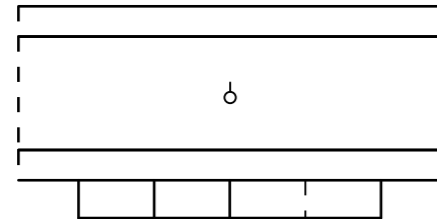
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SUBJECT		Cable-connection diagram =320-K-020+300JDAN-820-300CDAN820	
ADAPTED TO P&ID REVISION	08	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK REF.	17735-30 Loop Diagrams

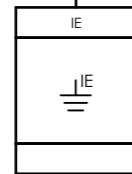
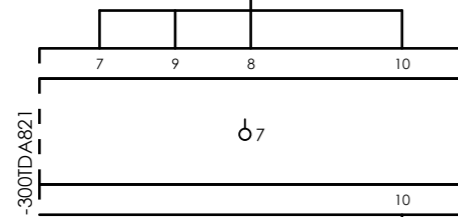
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CHECKED BY	RBE	+ 300JDAN820
LAST MODIFICATION DATE	2024-05-02	CURRENT PAGE
AIRPACK DWG NO.	17735-30	
REVISION	06	
TOTAL PAGE AMOUNT	10	

Loop Diagrams

Internal targets



External targets

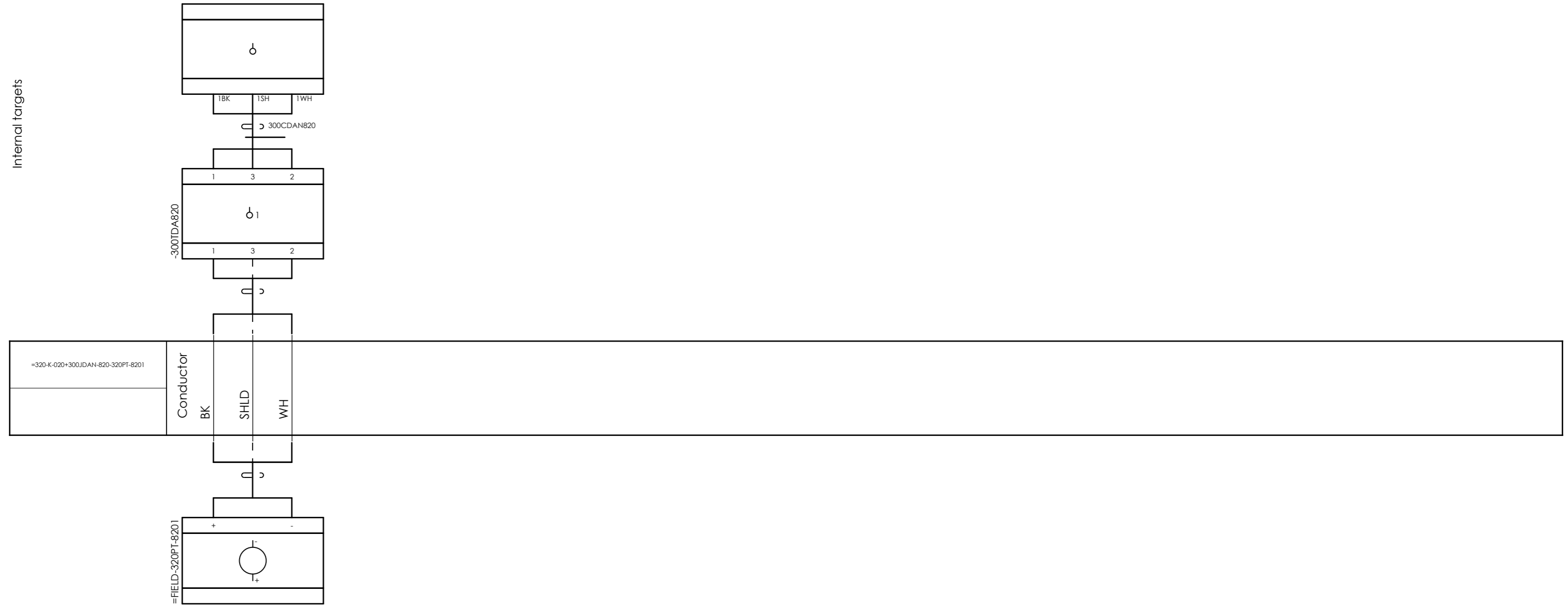


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EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT		Cable-connection diagram =320-K-020+300JDAN-820-300CDAN820	
ADAPTED TO P&ID REVISION	08	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	AIRPACK REF.	17735-30 Loop Diagrams

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CHECKED BY	RBE	+ 300JDAN820
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REVISION	06	
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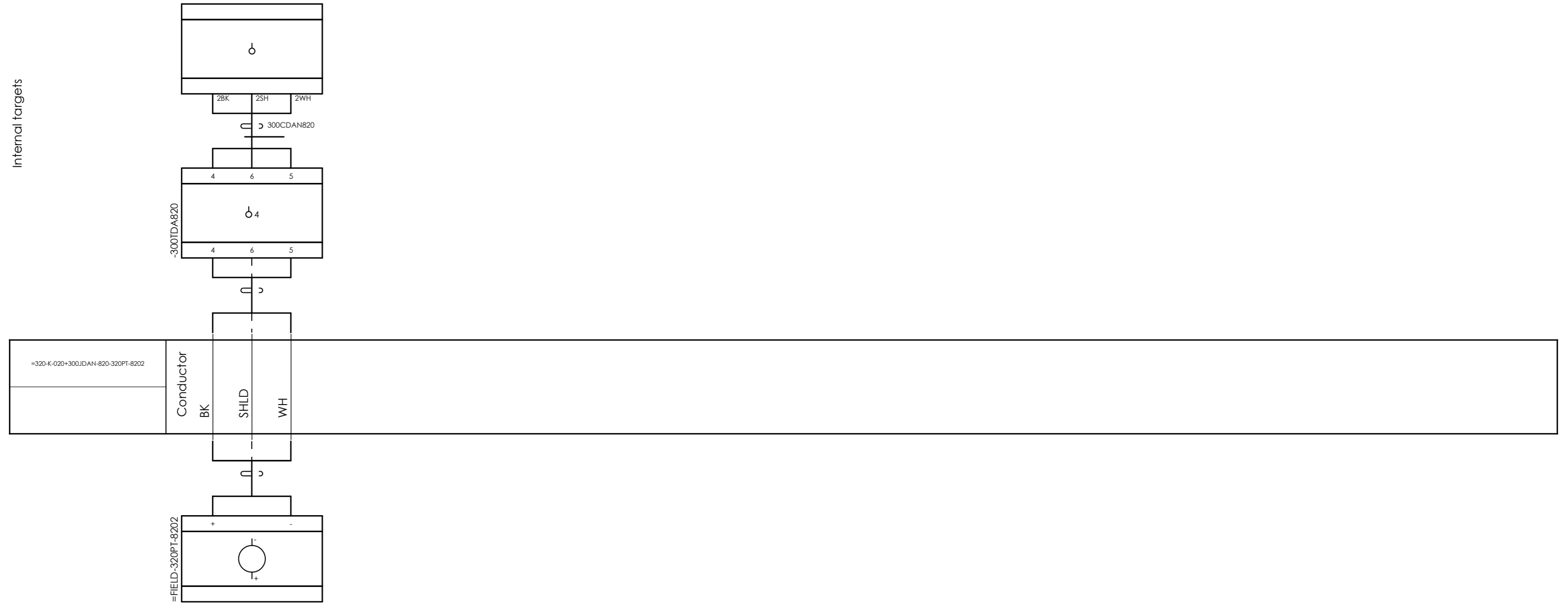
Loop Diagrams



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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	06		
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	12		

Loop Diagrams



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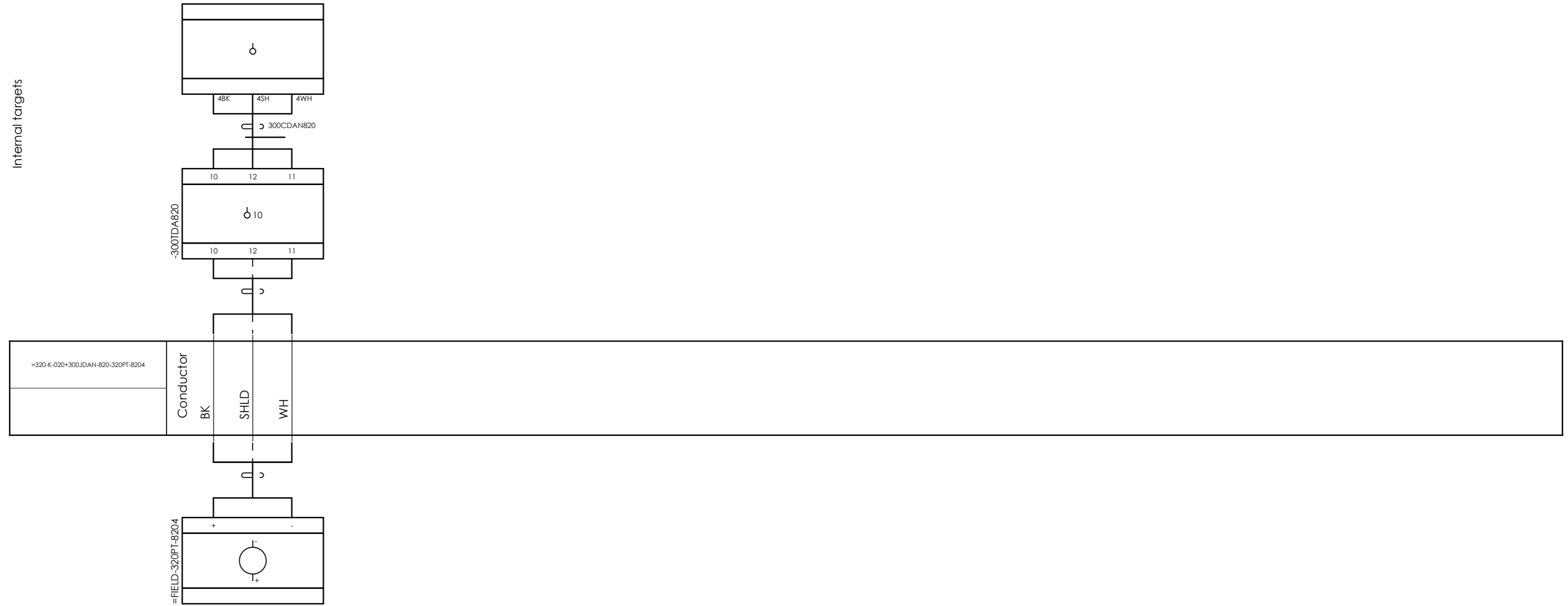
Loop Diagrams



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Loop Diagrams

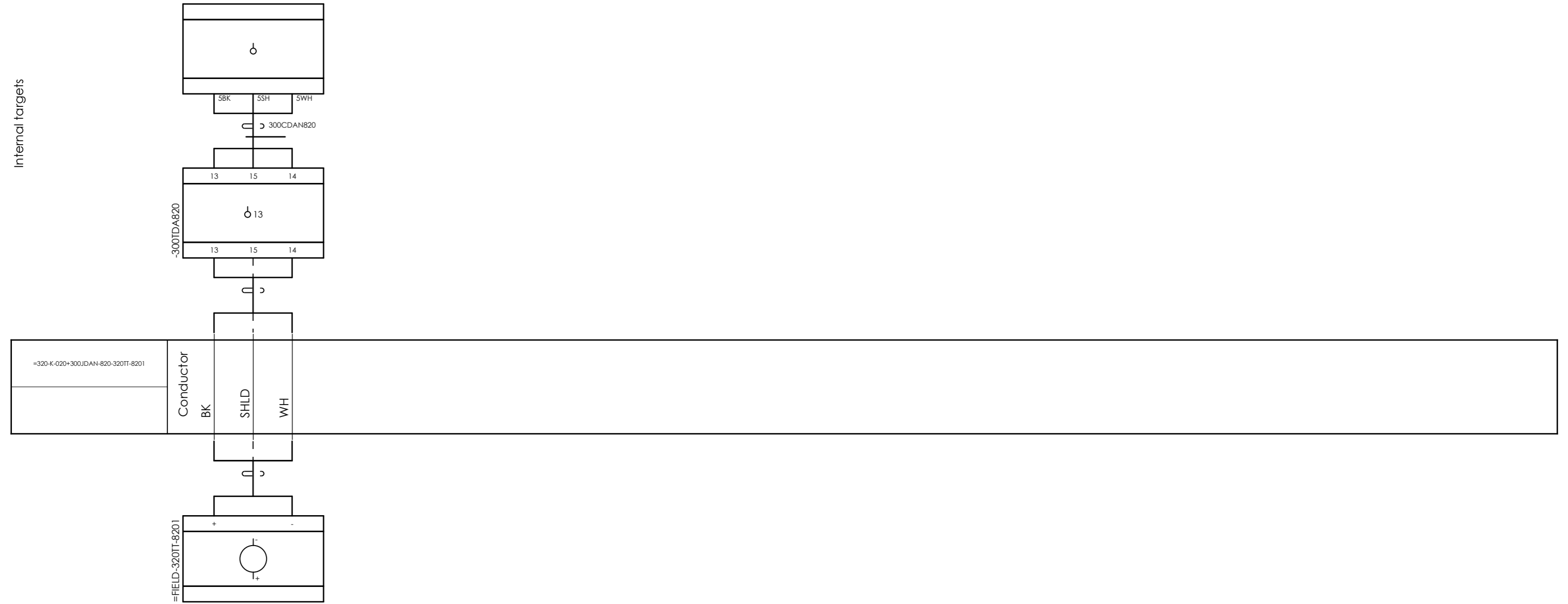


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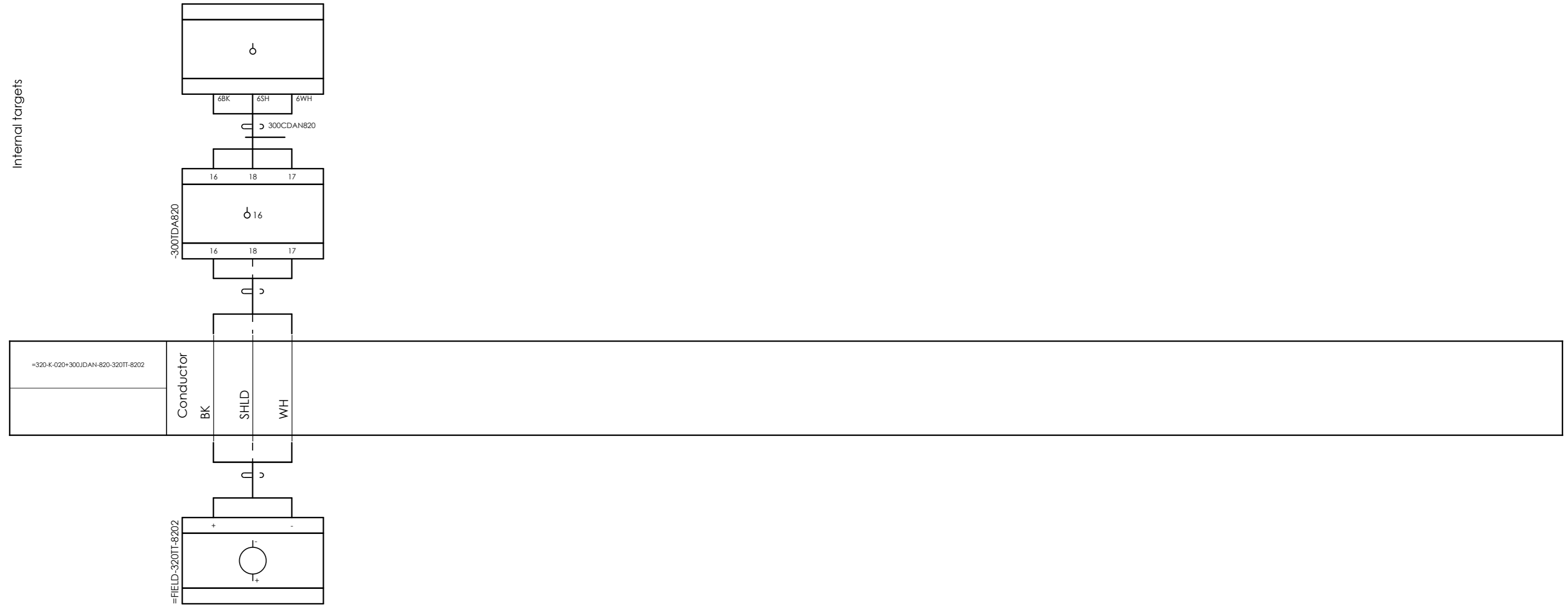
Loop Diagrams



CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!	

SUBJECT		DRAWN BY		RTR		= 320-K-020	
Cable-connection diagram =320-K-020+300JDAN-820-320TT-8201		CHECKED BY		RBE		+ 300JDAN820	
ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE		2024-05-02		CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		06			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		16			

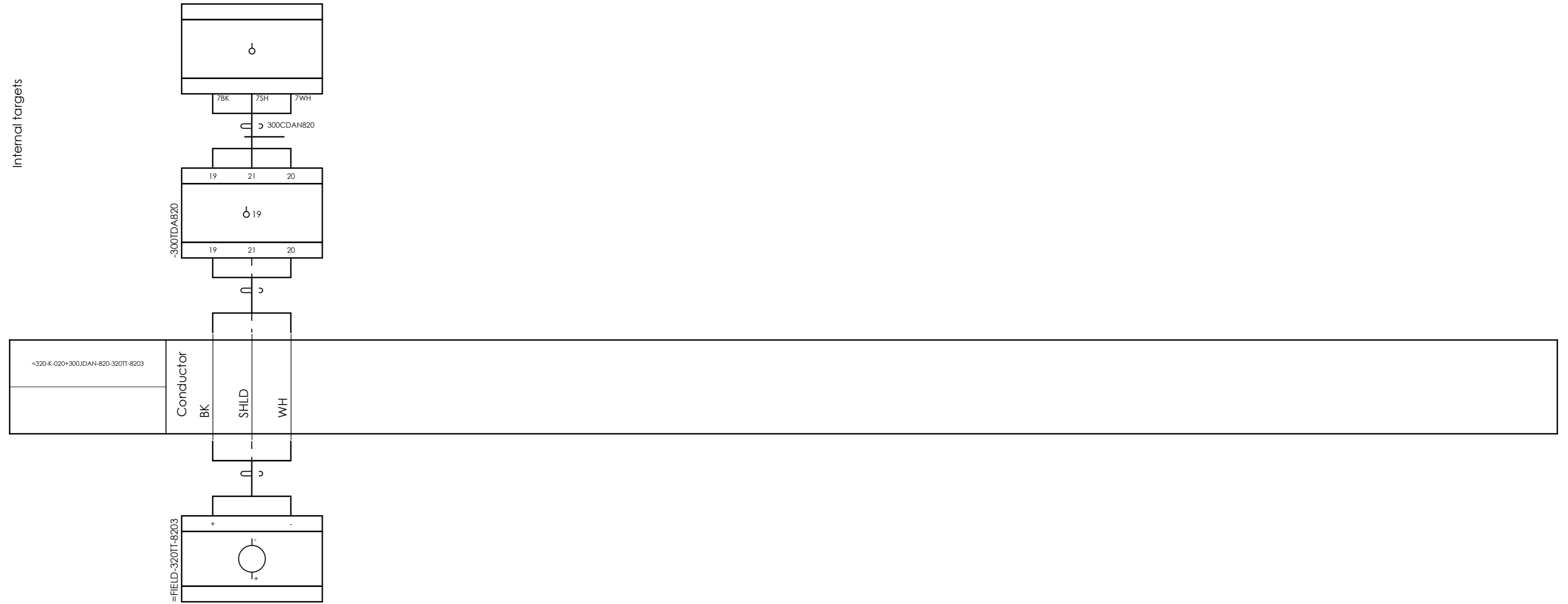
Loop Diagrams



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	
Cable-connection diagram =320-K-020+300JDAN-820-320TT-8202		= 320-K-020		+ 300JDAN820	
ADAPTED TO P&ID REVISION	08	CHECKED BY	RBE	LAST MODIFICATION DATE	2024-05-02
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-30	REVISION	06
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AIRPACK REF.	17735-30 Loop Diagrams				

Loop Diagrams



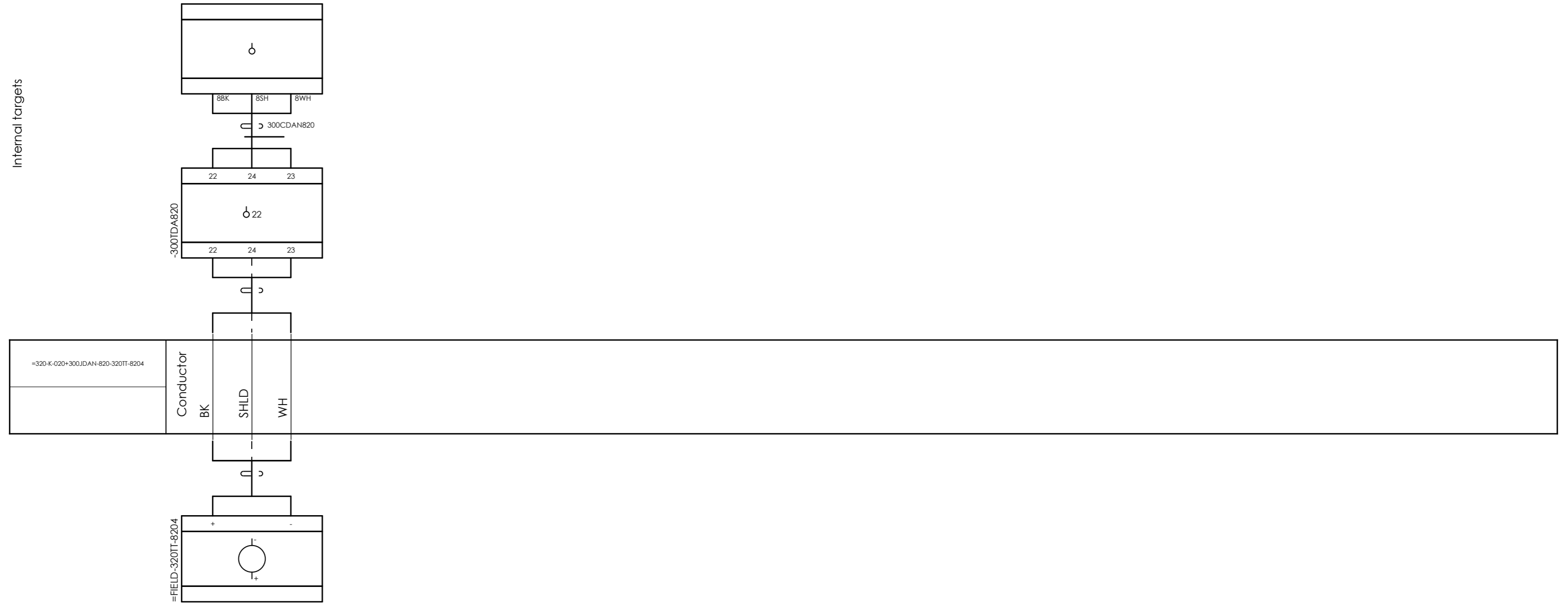
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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT Cable-connection diagram =320-K-020+300JDAN-820-320TT-8203	
ADAPTED TO P&ID REVISION	08
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-30 Loop Diagrams

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LAST MODIFICATION DATE	2024-05-02
AIRPACK DWG NO.	17735-30
REVISION	06
TOTAL PAGE AMOUNT	18

= 320-K-020
+ 300JDAN820
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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		= 320-K-020	
Cable-connection diagram =320-K-020+300JDAN-820-320TT-8204		CHECKED BY		RBE		+ 300JDAN820	
ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE		2024-05-02		CURRENT PAGE	
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.		17735-30			
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		06			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		19			

Loop Diagrams



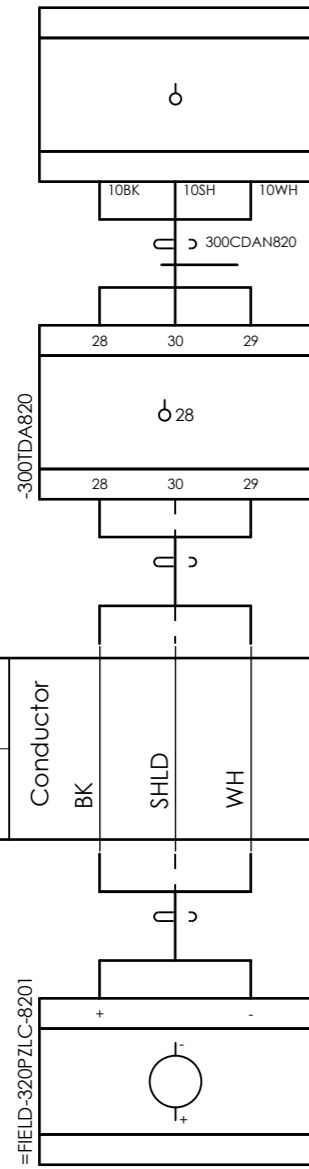
CLIENT DWG NO.	N-278-VD-6019-EL-DIA-0031
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT		DRAWN BY		RTR		= 320-K-020	
Cable-connection diagram =320-K-020+300JDAN-820-320TT-8205		CHECKED BY		RBE		+ 300JDAN820	
ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE		2024-05-02		CURRENT PAGE	
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION		06			
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT		20			

Loop Diagrams

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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		DRAWN BY		RTR	
Cable-connection diagram =320-K-020+300JDAN-820-320PZLC-8201		= 320-K-020		+ 300JDAN820	
ADAPTED TO P&ID REVISION	08	LAST MODIFICATION DATE	2024-05-02		
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	06		
AIRPACK REF.	17735-30 Loop Diagrams	TOTAL PAGE AMOUNT	21		

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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

SUBJECT Cable-connection diagram =320-K-020+300JDAN-820-320PCV-8201	
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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	2024-05-02
AIRPACK DWG NO.	17735-30
REVISION	06
TOTAL PAGE AMOUNT	22

= 320-K-020
+ 300JDAN820
CURRENT PAGE