

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							  	
	ELECTRICAL I/O SIGNAL LIST								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادرکننده PEDCO	تسهیلات 120	رشته EL	نوع مدرک LI	سریال 0005	نسخه D03	شماره صفحه: ۱ از ۹

طرح نگهداشت و افزایش تولید ۲۷ مخزن

ELECTRICAL I/O SIGNAL LIST

نگهداشت و افزایش تولید میدان نفتی بینک

D03	Sep.2023	AFC	H.Shakiba	M.Fakharian	S.Faramarzpour	
D02	May.2023	IFA	H.Shakiba	M.Fakharian	A.M.Mohseni	
D01	Nov.2022	IFA	H.Shakiba	M.Fakharian	M.Mehrshad	
D00	Jun.2022	IFC	H.Shakiba	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 1 Client Doc. Number: F0Z-709070

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for Client Review

AB-A: As-Built –Approved



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



ELECTRICAL I/O SIGNAL LIST

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D03	0005	LI	EL	120	PEDCO	GCS	BK

شماره صفحه: ۹ از ۲۰

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X	X	X	
2	X	X	X	X	
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Page	D00	D01	D02	D03	D04
51					
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
	ELECTRICAL I/O SIGNAL LIST							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	EL	LI	0005	D03

1. REFERENCE DOCUMENT LIST:

- I/O List for Control System "BK-GCS-PEDCO-120-IN-LI-0002"
- I/O List for ESD System "BK-GCS-PEDCO-120-IN-LI-0003"
- I/O List for F&G System "BK-GCS-PEDCO-120-IN-LI-0004"
- Wiring Diagram For Interposing Relay Panel (IRP) "BK-GCS-PEDCO-120-EL-DG-0011"
- LV Switchgear/MCC Single Line Diagram "BK-GCS-PEDCO-120-EL-SL-0002"
- Existent MV Switchgear Expansion Single Line Diagram "BK-GCS-PEDCO-120-EL-SL-0003"
- Instrument / F&G Cable List "BK-GCS-PEDCO-120-EL-LD-0001"
- Control Logic Diagram for LV Incomers & Bus Tie "BK-GCS-PEDCO-120-IN-LI-0009"
- ESD Level Hierarchy "BK-GCS-PEDCO-120-IN-DG-0003"

2. ABBREVIATION

- DI: Digital Input
- DO: Digital Output
- HW: Hard Wire
- SL: Serial Link
- CO: Close/Open
- I/O: Input / Output
- SWG: Switchgear
- TR: Transformer
- LV: Low Voltage Switchgear/MCC
- MV: Medium Voltage Switchgear
- DG: Diesel Generator
- IRP: Interposing Relay Panel
- DCS: Distributed Control System
- S.S: Selector Switch
- ATS: Automatic Transfer System
- RCP: Remote Control Panel

3. NOTE

These signals are not Redundant & Intrinsically Safe.



 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیفی توکام گاز در ایستگاه جمع آوری بینک							 	
		ELECTRICAL I/O SIGNAL LIST								
شماره پیمان: ۹۱۸۴ - ۷۳ - ۵۴		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۴ از ۹
		BK	GCS	PEDCO	120	EL	LI	0005	D03	
Control System I/O List										
Item	Bus	Electrical Equipment Number	Load	Instrument Description	Purpose	From	To	IO Type	SIGNAL TRANSFER METHOD	Signal Tag
1	GCS-400-NSWG-001A	P-2101A	Slug Pump A	P-2101A	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2111A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2111A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2111A
					Start Command	IRP (DCS)	LV-SWG	DO	HW	XSS-2111A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2111A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2111-A
2	GCS-400-NSWG-001B	P-2101B	Slug Pump B	P-2101B	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2111B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2111B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2111B
					Start Command	IRP (DCS)	LV-SWG	DO	HW	XSS-2111B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2111B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2111-B
3	GCS-400-NSWG-001A	AC-2121A	First Stage Air Cooler 21A	From 1ST Stage Gas Compressor Air Coolers (AE-2101-A)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2121A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2121A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2121A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2121A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2121A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2101-A-1
4	GCS-400-NSWG-001A	AC-2122A	First Stage Air Cooler 22A	From 1ST Stage Gas Compressor Air Coolers (AE-2101-A)	Local/Remote Status	LV LV SWG	IRP (DCS)	DI	HW	XL-2122A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2122A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2122A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2122A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2122A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2101-A-2
5	GCS-400-NSWG-001B	AC-2121B	First Stage Air Cooler 21B	From 1ST Stage Gas Compressor Air Coolers (AE-2101-B)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2121B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2121B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2121B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2121B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2121B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2101-B-1
6	GCS-400-NSWG-001B	AC-2122B	First Stage Air Cooler 22B	From 1ST Stage Gas Compressor Air Coolers (AE-2101-B)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2122B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2122B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2122B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2122B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2122B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2101-B-2
7	GCS-400-NSWG-001A	AC-2121C	First Stage Air Cooler 21C	From 1ST Stage Gas Compressor Air Coolers (AE-2101-C)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2121C
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2121C
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2121C
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2121C
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2121C
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2101-C-1
8	GCS-400-NSWG-001A	AC-2122C	First Stage Air Cooler 22C	From 1ST Stage Gas Compressor Air Coolers (AE-2101-C)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2122C
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2122C
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2122C
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2122C
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2122C
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2101-C-2
9	GCS-400-NSWG-001A	AC-2131A	Second Stage Air Cooler 31A	From 2ND Stage Gas Compressor Air Coolers (AE-2102-A)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2131A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2131A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2131A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2131A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2131A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2102-A-1
10	GCS-400-NSWG-001A	AC-2132A	Second Stage Air Cooler 32A	From 2ND Stage Gas Compressor Air Coolers (AE-2102-A)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2132A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2132A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2132A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2132A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2132A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2102-A-2
11	GCS-400-NSWG-001B	AC-2131B	Second Stage Air Cooler 31B	From 2ND Stage Gas Compressor Air Coolers (AE-2102-B)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2131B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2131B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2131B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2131B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2131B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2102-B-1
12	GCS-400-NSWG-001B	AC-2132B	Second Stage Air Cooler 32B	From 2ND Stage Gas Compressor Air Coolers (AE-2102-C)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2132B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2132B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2132B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2132B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2132B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-AE-2102-B-2

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف توکام گاز در ایستگاه جمع آوری بینک							 	
		ELECTRICAL I/O SIGNAL LIST								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۹
		BK	GCS	PEDCO	120	EL	LI	0005	D03	
Control System I/O List										
Item	Bus	Electrical Equipment Number	Load	Instrument Description	Purpose	From	To	IO Type	SIGNAL TRANSFER METHOD	Signal Tag
13	GCS-400-NSWG-001A	AC-2131C	Second Stage Air Cooler 31C	From 2ND Stage Gas Compressor Air Coolers (AE-2102-C)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2131C
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2131C
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2131C
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2131C
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2131C
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-2131C
14	GCS-400-NSWG-001A	AC-2132C	Second Stage Air Cooler 32C	From 2ND Stage Gas Compressor Air Coolers (AE-2102-C)	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	AC-2132C
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2132C
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2132C
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2132C
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2132C
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-2132C
15	GCS-400-NSWG-001A	P-2103A	Glycol Transfer Pump A	P-2103A	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2161A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2161A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2161A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2161A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2161A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2161-A
16	GCS-400-NSWG-001B	P-2103B	Glycol Transfer Pump B	P-2103B	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2161B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2161B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2161B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2161B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2161B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2161-B
17	GCS-400-NSWG-001A	P-2203A	Sump Pump A	P-2203-A	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2222A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2222A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2222A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2222A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2222A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2203-A
18	GCS-400-NSWG-001B	P-2203B	Sump Pump B	P-2203-B	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2222B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2222B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2222B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2222B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2222B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2203-B
19	GCS-400-NSWG-001A	P-2202A	Closed Drain Pump A	P-2202-A	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2221A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2221A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2221A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2221A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2221A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2202-A
20	GCS-400-NSWG-001B	P-2202B	Closed Drain Pump B	P-2202-B	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2221B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2221B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2221B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2221B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2221B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2202-B
21	GCS-400-NSWG-001A	P-2209	Potable Water Pump	P-2209	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2291
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2291
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2291
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2291
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2291
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2209
22	GCS-400-NSWG-001A	P-2206	Diesel Oil Pump	P-2206	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2281A
					Running/Stop Status	LV SWG	IRP (DCS)	DI	HW	XR-2281A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2281A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2206
23	GCS-400-NSWG-001E	P-2201A	LP Flare K.O. Drum Pump A	P-2201 A	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2251A
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2251A
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2251A
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2251A
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2251A
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-2201A
24	GCS-400-NSWG-001E	P-2201B	LP Flare K.O. Drum Pump B	P-2201 B	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2251B
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2251B
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2251B
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2251B
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2251B
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-2201B
25	GCS-400-NSWG-001B	P-2104	Glycol Drain Pump	P-2104	Local/Remote Status	LV SWG	IRP (DCS)	DI	HW	XL-2293
					Running Status	LV SWG	IRP (DCS)	DI	HW	XR-2293
					Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-2293
					Start Command	IRP (DCS)	LV SWG	DO	HW	XSS-2293
					Stop Command	IRP (DCS)	LV SWG	DO	HW	XSP-2293
					Trip Command	IRP (ESD)	LV SWG	DO	HW	ESD-P-2104



ELECTRICAL I/O SIGNAL LIST



شماره صفحه: ۶ از ۹

شماره پیمان:

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پروژه

بسته کاری

صادر کنندہ

نصیحتات

رشته

نوع مدرک

سریال

نسخه

Electrical System I/O List

D03

 NISOC		تجهيزات و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 شیرکت توسعه و پارسا 	
		ELECTRICAL I/O SIGNAL LIST								
شماره پیمان: ۰۵۳ - ۰۷۲ - ۹۱۸۴		پرورده	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدارك	سرمال	نسخه	شماره صفحه: ۹ از ۷۹
		BK	GCS	PEDCO	120	EL	LI	0005	D03	
Electrical System I/O List										
Item	EQ. Tag No.	SIGNAL DESCRIPTION		PURPOSE		From	To	IO Type	SIGNAL TRANSFER METHOD	Signal Tag
19	 D03									
20	GCS-11000-SWG-001A	11 KV SWGR-Spare-Q5		Open/Close Status		MV SWG	IRP (DCS)	DI	HW	XOC-MV-001A-Q5
				Fault Status		MV SWG	IRP (DCS)	DI	HW	XF-MV-001A-Q5
				Isolation Command		IRP (ESD 0)	MV SWG	DO	HW	Spare
21	GCS-11000-SWG-001B	11/0.4 KV SWGR-Transformer Feeder-Q2		Open/Close Status		MV SWG	IRP (DCS)	DI	HW	XOC-MV-001B-Q2
				Fault Status		MV SWG	IRP (DCS)	DI	HW	XF-MV-001B-Q2
				Isolation Command		IRP (ESD 0)	MV SWG	DO	HW	ESD 0-EL 1B
22	 D03									
23	GCS-11000-SWG-001B	11/3.3 KV SWGR-Transformer Feeder-Q4		Open/Close Status		MV SWG	IRP (DCS)	DI	HW	XOC-MV-001B-Q4
				Fault Status		MV SWG	IRP (DCS)	DI	HW	XF-MV-001B-Q4
24	GCS-11000-SWG-001B	11 KV SWGR-Spare-Q5		Open/Close Status		MV SWG	IRP (DCS)	DI	HW	XOC-MV-001B-Q5
				Fault Status		MV SWG	IRP (DCS)	DI	HW	XF-MV-001B-Q5
				Isolation Command		IRP (ESD 0)	MV SWG	DO	HW	Spare
25	GCS-3300-SWG-001C	3.3 KV SWGR-Fire Pump-Q3		Open/Close Status		MV SWG	IRP (DCS)	DI	HW	XOC-MV-001C-Q3
				Fault Status		MV SWG	IRP (DCS)	DI	HW	XF-MV-001C-Q3
26	GCS-400-NSWG	400 V SWGR Auto/Manual S.S for ATS		Auto/Manual Status		LV SWG	IRP (DCS)	DI	HW	XL-ATS
27	GCS-11000-SWG-001A	11/0.4 KV SWGR-Transformer Feeder-Q2		Close Status		MV SWG	RCP	AI	HW	XC-MV-001A-Q2
				Open Status		MV SWG	RCP	AI	HW	XO-MV-001A-Q2
				Breaker In Service		MV SWG	RCP	AI	HW	XI-MV-001A-Q2
				Fault Status		MV SWG	RCP	AI	HW	XF-MV-001A-Q2
				Stop Command		RCP	MV SWG	DO	HW	XSP-MV-001A-Q2
28	GCS-11000-SWG-001B	11/0.4 KV SWGR-Transformer Feeder-Q2		Start Command		RCP	MV SWG	DO	HW	XSS-MV-001A-Q2
				Close Status		MV SWG	RCP	AI	HW	XC-MV-001B-Q2
				Open Status		MV SWG	RCP	AI	HW	XO-MV-001B-Q2
				Breaker In Service		MV SWG	RCP	AI	HW	XI-MV-001B-Q2
				Fault Status		MV SWG	RCP	AI	HW	XF-MV-001B-Q2
29	GCS-11000-SWG-001B	11/0.4 KV SWGR-Transformer Feeder-Q2		Stop Command		RCP	MV SWG	DO	HW	XSP-MV-001B-Q2
				Start Command		RCP	MV SWG	DO	HW	XSS-MV-001B-Q2
				Close Status		MV SWG	RCP	AI	HW	XC-MV-001B-Q4
				Open Status		MV SWG	RCP	AI	HW	XO-MV-001B-Q4
				Breaker In Service		MV SWG	RCP	AI	HW	XI-MV-001B-Q4
30	GCS-11000-SWG-001B	11/3.3 KV SWGR-Transformer Feeder-Q4		Fault Status		MV SWG	RCP	AI	HW	XF-MV-001B-Q4
				Stop Command		RCP	MV SWG	DO	HW	XSP-MV-001A-Q4
				Start Command		RCP	MV SWG	DO	HW	XSS-MV-001A-Q4
				Close Status		MV SWG	RCP	AI	HW	XC-MV-001B-Q4
				Open Status		MV SWG	RCP	AI	HW	XO-MV-001B-Q4
31	GCS-400-NSWG	400 V SWGR-Incoming A-Q1		Multifunction Meter		LV SWG	DCS	DI	SL	XM-LV-IN1
32	GCS-400-NSWG	400 V SWGR-Incoming B-Q2		Multifunction Meter		LV SWG	DCS	DI	SL	XM-LV-IN2
33	GCS-11000-SWG-001A	11 KV SWGR-Spare-Q5		Close Status		MV SWG	RCP	AI	HW	Spare
				Open Status		MV SWG	RCP	AI	HW	Spare
				Breaker In Service		MV SWG	RCP	AI	HW	Spare
				Fault Status		MV SWG	RCP	AI	HW	Spare
				Stop Command		RCP	MV SWG	DO	HW	Spare
				Start Command		RCP	MV SWG	DO	HW	Spare
34	GCS-11000-SWG-001B	11 KV SWGR-Spare-Q5		Close Status		MV SWG	RCP	AI	HW	Spare
				Open Status		MV SWG	RCP	AI	HW	Spare
				Breaker In Service		MV SWG	RCP	AI	HW	Spare
				Fault Status		MV SWG	RCP	AI	HW	Spare
				Stop Command		RCP	MV SWG	DO	HW	Spare
				Start Command		RCP	MV SWG	DO	HW	Spare

 NISOC		تجهیزات و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 شرکت توسعه و پارسا HIRGAN ENERGY	
		ELECTRICAL I/O SIGNAL LIST							
شماره پیمان:		پرورده	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدارک	سرمال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	PEDCO	120	EL	LI	0005	D03
شماره صفحه: ۸ از ۹									
Havayar System I/O List									
Item	Equipment Tag	Electrical Equipment Number	Purpose	From	To	IO Type	Signal Transfer Method	Signal Tag	
1	GCS-11000-SWG-001A	D03 11 KV SWGR-Gas Compressor-A-2101A-Q3	Start Command	IRP (UCP-A)	MV SWG	DO	HW	HST-2224 A	
			Stop Command	IRP (UCP-A)	MV SWG	DO	HW	HSP-2224 A	
			Running Status	MV SWG	IRP (UCP-A)	DI	HW	XL-2224 A	
			Fault Status	MV SWG	IRP (UCP-A)	DI	HW	XA-2224 A	
			Isolation Command	IRP (ESD 1A)	MV SWG	DO	HW	XOS-MV-001A-Q3	
2	GCS-11000-SWG-001A	11 KV SWGR-Gas Compressor-C-2101C-Q4	Start Command	IRP (UCP-B)	MV SWG	DO	HW	HST-2224 B	
			Stop Command	IRP (UCP-B)	MV SWG	DO	HW	HSP-2224 B	
			Running Status	MV SWG	IRP (UCP-B)	DI	HW	XL-2224 B	
			Fault Status	MV SWG	IRP (UCP-B)	DI	HW	XA-2224 B	
			Isolation Command	IRP (ESD 1A)	MV SWG	DO	HW	XOS-MV-001A-Q4	
3	GCS-11000-SWG-001B	11 KV SWGR-Gas Compressor-C-2101B-Q3	Start Command	IRP (UCP-C)	MV SWG	DO	HW	HST-2224 C	
			Stop Command	IRP (UCP-C)	MV SWG	DO	HW	HSP-2224 C	
			Running Status	MV SWG	IRP (UCP-C)	DI	HW	XL-2224 C	
			Fault Status	MV SWG	IRP (UCP-C)	DI	HW	XA-2224 C	
			Isolation Command	IRP (ESD 1A)	MV SWG	DO	HW	XOS-MV-001A-Q3	
4	Auxiliary Panel for Gas Compressor C-2101A	Heater Crank Case (Oil Heater)	Start Command	IRP (UCP-A)	LV	DO	HW	HSP-2203 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HST-2203 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2203 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2203 A	
5	Auxiliary Panel for Gas Compressor C-2101A	Heater on Lubricator (Cylinder Lubricator Oil Heater)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2200 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2200 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2200 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2200 A	
6	Auxiliary Panel for Gas Compressor C-2101A	Auxiliary Oil Pump (P-2101-AP A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2202 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2202 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2202 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2202 A	
7	Auxiliary Panel for Gas Compressor C-2101A	Lubricator Oil Pump (2101-LP A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2201 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2201 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2201 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2201 A	
8	Auxiliary Panel for Gas Compressor C-2101A	Lubricator Oil Cooler (AE-2101-OC A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2205 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2205 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2205 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2205 A	
9	Auxiliary Panel for Gas Compressor C-2101A	Water Console Cooler Motor (AE-2101-WC A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2220 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2220 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2220 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2220 A	
10	Auxiliary Panel for Gas Compressor C-2101A	Aux Water Pump (P-2101-AX A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2221 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2221 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2221A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2221 A	
11	Auxiliary Panel for Gas Compressor C-2101A	Main Water Pump (P-2101-WP A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2222 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2222 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2222A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2222 A	
12	Auxiliary Panel for Gas Compressor C-2101A	Water Consul Cooler Heater (AE-2101-WC A)	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2223 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2223 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2223A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2223 A	
13	Auxiliary Panel for Gas Compressor C-2101A	Motor Bearing Device Motor	Start Command	IRP (UCP-A)	LV	DO	HW	HST-2225 A	
			Stop Command	IRP (UCP-A)	LV	DO	HW	HSP-2225 A	
			Running Status	LV	IRP (UCP-A)	DI	HW	XL-2225 A	
			Fault Status	LV	IRP (UCP-A)	DI	HW	XA-2225 A	
14	Auxiliary Panel for Gas Compressor C-2101B	Heater Crank Case (Oil Heater)	Start Command	IRP (UCP-B)	LV	DO	HW	HSP-2203 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HST-2203 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2203 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2203 B	
15	Auxiliary Panel for Gas Compressor C-2101B	Heater on Lubricator (Cylinder Lubricator Oil Heater)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2200 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2200 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2200 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2200 B	
16	Auxiliary Panel for Gas Compressor C-2101B	Auxiliary Oil Pump (P-2101-AP B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2202 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2202 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2202 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2202 B	

 NISOC		تجهیزات و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 شماره صفحه: ۹ از ۹	
		ELECTRICAL I/O SIGNAL LIST							
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدارک	سرپال	نسخه
۰۵۴ - ۰۷۳ - ۹۱۸۴		BK	GCS	PEDCO	120	EL	LI	0005	D03
Havayar System I/O List									
Item	Equipment Tag	Electrical Equipment Number	Purpose	From	To	IO Type	Signal Transfer Method	Signal Tag	
17	Auxiliary Panel for Gas Compressor C-2101B	Lubricator Oil Pump (2101-LP B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2201 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2201 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2201 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2201 B	
18	Auxiliary Panel for Gas Compressor C-2101B	Lubricator Oil Cooler (AE-2101-OC B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2205 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2205 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2205 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2205 B	
19	Auxiliary Panel for Gas Compressor C-2101B	Water Console Cooler Motor (AE-2101-WC B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2220 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2220 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2220 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2220 B	
20	Auxiliary Panel for Gas Compressor C-2101B	Aux Water Pump (P-2101-AX B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2221 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2221 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2221 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2221 B	
21	Auxiliary Panel for Gas Compressor C-2101B	Main Water Pump (P-2101-WP B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2222 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2222 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2222 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2222 B	
22	Auxiliary Panel for Gas Compressor C-2101B	Water Consul Cooler Heater (AE-2101-WC B)	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2223 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2223 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2223 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2223 B	
23	Auxiliary Panel for Gas Compressor C-2101B	Motor Bearing Device Motor	Start Command	IRP (UCP-B)	LV	DO	HW	HST-2225 B	
			Stop Command	IRP (UCP-B)	LV	DO	HW	HSP-2225 B	
			Running Status	LV	IRP (UCP-B)	DI	HW	XL-2225 B	
			Fault Status	LV	IRP (UCP-B)	DI	HW	XA-2225 B	
24	Auxiliary Panel for Gas Compressor C-2101C	Heater Crank Case (Oil Heater)	Start Command	IRP (UCP-C)	LV	DO	HW	HSP-2203 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HST-2203 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2203 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2203 C	
25	Auxiliary Panel for Gas Compressor C-2101C	Heater on Lubricator (Cylinder Lubricator Oil Heater)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2200 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2200 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2200 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2200 C	
26	Auxiliary Panel for Gas Compressor C-2101C	Auxiliary Oil Pump (P-2101-AP C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2202 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2202 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2202 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2202 C	
27	Auxiliary Panel for Gas Compressor C-2101C	Lubricator Oil Pump (2101-LP C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2201 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2201 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2201 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2201 C	
28	Auxiliary Panel for Gas Compressor C-2101C	Lubricator Oil Cooler (AE-2101-OC C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2205 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2205 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2205 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2205 C	
29	Auxiliary Panel for Gas Compressor C-2101C	Water Console Cooler Motor (AE-2101-WC C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2220 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2220 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2220 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2220 C	
30	Auxiliary Panel for Gas Compressor C-2101C	Aux Water Pump (P-2101-AX C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2221 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2221 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2221 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2221 C	
31	Auxiliary Panel for Gas Compressor C-2101C	Main Water Pump (P-2101-WP C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2222 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2222 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2222 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2222 C	
32	Auxiliary Panel for Gas Compressor C-2101C	Water Consul Cooler Heater (AE-2101-WC C)	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2223 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2223 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2223 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2223 C	
33	Auxiliary Panel for Gas Compressor C-2101C	Motor Bearing Device Motor	Start Command	IRP (UCP-C)	LV	DO	HW	HST-2225 C	
			Stop Command	IRP (UCP-C)	LV	DO	HW	HSP-2225 C	
			Running Status	LV	IRP (UCP-C)	DI	HW	XL-2225 C	
			Fault Status	LV	IRP (UCP-C)	DI	HW	XA-2225 C	