

 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	صادر کننده PEDCO	تسهیلات 120	رشته EL	نوع مدرک LI	سریال 0005	نسخه D01	شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

ELECTRICAL I/O SIGNAL LIST

نگهداشت و افزایش تولید میدان نفتی بینک

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: 2 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
D01	0005	LI	EL	120	PEDCO	GCS	BK

شماره صفحه: ۷ از ۲

REVISION RECORD SHEET

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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	شماره صفحه: ۷ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	EL	LI	0005	D01	

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"

D01

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

 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 ۷
	BK	GCS	PEDCO	120	EL	LI	0005	D01	

Control System I/O List										
Item	Bus	Electrical Equipment Number	Load	Instrument Description	Description	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

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		ELECTRICAL I/O SIGNAL LIST								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	PEDCO	120	EL	LI	0005	D01	
Control System I/O List										
Item	Bus	Electrical Equipment Number	Load	Instrument Description	Description	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

 NISOC		تجهیزات 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	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه
		BK	GCS	PEDCO	120	EL	LI	0005	D01
شماره صفحه: ۶ از ۷									
Electrical System I/O List									
Item	EQ. Tag No.	SIGNAL DESCRIPTION	PURPOSE	From	To	IO Type	SIGNAL TRANSFER METHOD	Signal Tag	
1	GCS-400-NSWG	400 V SWGR-Incoming A-Q0A	Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0A	
			Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0A	
2	GCS-TR-001	11/0.42 KV TR-001	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-TR-001	
3	GCS-400-NSWG	400 V SWGR-Incoming B-Q0B	Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0B	
			Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0B	
4	GCS-TR-002	11/0.42 KV TR-002	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-TR-002	
5	GCS-400-NSWG	400 V SWGR-Bus Tie-Q0C	Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0C	
			Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0C	
6	GCS-400-NSWG	400 V SWGR-DG C.B-Q0E	Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0E	
			Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0E	
7	GCS-400-NSWG	400 V SWGR-DG Bus Tie-Q0D	Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0D	
			Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0D	
8	GCS-110-UPS-001	110 V AC UPS-001-CH01	On/Off Status	Charger in Control Room	DCS	-	SL	XO-UPS-001-CH01	
			Current Sample					XC-UPS-001-CH01	
			Voltasge Sample					XV-UPS-001-CH01	
			Fault Status		ESD	DI	HW	ESD R0-UPS-A	
			Isolation Command	ESD				ESD 0-EL2A	
			Inhibit to Boost	F&G	Charger	DO	HW	INB-FG-1101A	
9	GCS-110-UPS-001	110 V AC UPS-001-CH02	On/Off Status	Charger in Control Room	DCS	-	SL	XO-UPS-001-CH02	
			Current Sample					XC-UPS-001-CH02	
			Voltasge Sample					XV-UPS-001-CH02	
			Fault Status		ESD	DI	HW	ESD R0-UPS-B	
			Isolation Command	ESD				ESD 0-EL2B	
			Inhibit to Boost	F&G	Charger	DO	HW	INB-FG-1101B	
10	GCS-24-UPS-002	24 V DC UPS-002-CH01	On/Off Status	Charger in Control Room	DCS	-	SL	XO-UPS-002-CH01	
			Current Sample					XC-UPS-002-CH01	
			Voltasge Sample					XV-UPS-002-CH01	
			Fault Status		ESD	DO	HW	ESD 0-EL3A	
			Isolation Command	ESD				INB-FG-1102A	
			Inhibit to Boost	F&G	Charger	DO	HW	INB-FG-1102B	
11	GCS-24-UPS-002	24 V DC UPS-002-CH02	On/Off Status	Charger in Control Room	DCS	-	SL	XO-UPS-002-CH02	
			Current Sample					XC-UPS-002-CH02	
			Voltasge Sample					XV-UPS-002-CH02	
			Fault Status		ESD	DO	HW	ESD 0-EL3B	
			Isolation Command	ESD				INB-FG-1102B	
			Inhibit to Boost	F&G	Charger	DO	HW	INB-FG-1102B	
12	GCS-110-UPS-001	110 V AC UPS-001	Battery Fan	F&G	Dist Panel for Battery Room	DO	HW	XBF-UPS-001	
13	GCS-110-CHG-001	110 V DC Charger-001-CH01	On/Off Status	Charger in Switchgear Room	DCS	-	SL	XO-CHG-001-CH01	
			Current					XC-CHG-001-CH01	
			Voltasge					XV-CHG-001-CH01	
			Fault Status		Charger	DO	HW	XF-CHG-001-CH01	
			Isolation Command	IRP (ESD)				ESD 0-EL4A	
			Inhibit to Boost	IRP (F&G)				INB-FG-1103A	
14	GCS-110-CHG-002	110 V DC Charger-001-CH02	On/Off Status	Charger in Switchgear Room	DCS	-	SL	XO-CHG-001-CH02	
			Current					XC-CHG-001-CH02	
			Voltasge					XV-CHG-001-CH02	
			Fault Status		Charger	DO	HW	XF-CHG-001-CH02	
			Isolation Command	IRP (ESD)				ESD 0-EL4B	
			Inhibit to Boost	IRP (F&G)				NB-FG-1103B	
15	GCS-110-UPS-001	110 V DC UPS-001	Battery Fan	F&G	Dist Panel for Battery Room	DO	HW	XXXX	
16	GCS-11000-SWG-001A	11/0.4 KV SWGR-Transformer Feeder-Q2	Open/Close Status	MV SWG	IRP (DCS)	DI	HW	XOC-MV-001A-Q2	
			Fault Status	MV SWG	IRP (DCS)	DI	HW	XF-MV-001A-Q2	
			Isolation Command	IRP (ESD 0)	MV SWG	DO	HW	ESD 0-EL 1A	
17	GCS-11000-SWG-001A	11 KV SWGR-Gas Compressor-A-2101A-Q3	Open/Close Status	MV SWG	IRP (DCS)	DI	HW	XOC-MV-001A-Q3	
			Fault Status	MV SWG	IRP (DCS)	DI	HW	XF-MV-001A-Q3	
			Isolation Command	IRP (ESD 1A)	MV SWG	DO	HW	XOS-MV-001A-Q3	

 NISOC		تجهاد است 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	تهیهات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	PEDCO	120	EL	LI	0005	D01
شماره صفحه: ۷ از ۷									
Electrical System I/O List									
Item	EQ. Tag No.	SIGNAL DESCRIPTION	PURPOSE	From	To	IO Type	SIGNAL TRANSFER METHOD	Signal Tag	
18	GCS-11000-SWG-001A	11 KV SWGR-Gas Compressor-C-2101C-Q4	Open/Close Status	MV SWG	IRP (DCS)	DI	HW	XOC-MV-001A-Q4	
			Fault Status	MV SWG	IRP (DCS)	DI	HW	XF-MV-001A-Q4	
			Isolation Command	IRP (ESD 1A)	MV SWG	DO	HW	XOS-MV-001A-Q4	
19	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	
20	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	
21	GCS-11000-SWG-001B	11 KV SWGR-Gas Compressor-C-2101B-Q3	Open/Close Status	MV SWG	IRP (DCS)	DI	HW	XOC-MV-001B-Q3	
			Fault Status	MV SWG	IRP (DCS)	DI	HW	XF-MV-001B-Q3	
			Isolation Command	IRP (ESD 1A)	MV SWG	DO	HW	XOS-MV-001B-Q3	
22	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	
23	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	
24	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	
25	GCS-400-NSWG	400 V SWGR Auto/Manual S.S for ATS	Auto/Manual Status	LV SWG	IRP (DCS)	DI	HW	XL-ATS	
26	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	
			Start Command	RCP	MV SWG	DO	HW	XSS-MV-001A-Q2	
27	GCS-11000-SWG-001B	11/0.4 KV SWGR-Transformer Feeder-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	
			Stop Command	RCP	MV SWG	DO	HW	XSP-MV-001B-Q2	
			Start Command	RCP	MV SWG	DO	HW	XSS-MV-001B-Q2	
28	GCS-11000-SWG-001B	11/3.3 KV SWGR-Transformer Feeder-Q4	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	
			Fault Status	MV SWG	RCP	AI	HW	XF-MV-001B-Q4	
29	GCS-400-NSWG	400 V SWGR-Incoming A-Q1	Multifunction Meter	LV SWG	IRP (DCS)	DI	SL	XM-LV-IN1	
30	GCS-400-NSWG	400 V SWGR-Incoming B-Q2	Multifunction Meter	LV SWG	IRP (DCS)	DI	SL	XM-LV-IN2	