



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

D02

شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

ELECTRICAL I/O SIGNAL LIST

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	Client Approval
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D01	Nov.2022	IFA	H.Shakiba	M.Fakharian	M.Mehrshad	
D00	Jun.2022	IFC	H.Shakiba	M.Fakharian	M.Mehrshad	

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



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ELECTRICAL I/O SIGNAL LIST

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	EL	LI	0005	D02

شماره صفحه: ۷ از ۲

REVISION RECORD SHEET

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ELECTRICAL I/O SIGNAL LIST

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	EL	LI	0005	D02

شماره صفحه: ۷ از ۳

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



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ELECTRICAL I/O SIGNAL LIST

شماره پیمان:

۹۱۸۳ - ۱۷۳ - ۰۳

پروژه

بسته کاری

صادرکننده

تسهیلات

رشته

نوع مدرک

سرپرل

نسخه

BK

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PEDCO

120

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شماره صفحه: ۴ از ۷

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:

۹۱۸۳ - ۱۳ - ۰۳

پروژه	بسته کاری	سازنده	تسهیلات	رشته	نوع مدرک	سربرگ	نسخه
BK	GCS	PEDCO	120	EL	LI	0005	D02

شماره صفحه: ۵ از ۷

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



تجهیزات و افزایش تولید میدان نفتی بینک
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شماره پیمان:	بروزه	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدارک	سرپرست	نسخه
۰۳ - ۰۷ - ۹۱۸۴	BK	GCS	PEDCO	120	EL	LI	0005	D02

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
			Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0B
3	GCS-400-NSWG	400 V SWGR-Incoming B-Q0B	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0B
			Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0C
4	GCS-TR-002	11/0.42 KV TR-002	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-TR-002
			Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0C
5	GCS-400-NSWG	400 V SWGR-Bus Tie-Q0C	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0C
			Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0E
6	GCS-400-NSWG	400 V SWGR-DG C.B-Q0E	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0E
			Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-LV-Q0D
7	GCS-400-NSWG	400 V SWGR-DG Bus Tie-Q0D	Fault Status	LV SWG	IRP (DCS)	DI	HW	XF-LV-Q0D
			Open/Close Status	LV SWG	IRP (DCS)	DI	HW	XOC-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
			Voltage Sample					XV-UPS-001-CH01
			Fault Status					ESD R0-UPS-A
			Isolation Command					ESD
Inhibit to Boost (Off)	HVAC Fan (Ctrl)	Charger	DO	HW	INB-HVAC-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
			Voltage Sample					XV-UPS-001-CH02
			Fault Status					ESD R0-UPS-B
			Isolation Command					ESD
Inhibit to Boost (Off)	HVAC Fan (Ctrl)	Charger	DO	HW	INB-HVAC-1101B			
10	GCS-110-UPS-001	110 V AC UPS-001	Isolation of Battery Bank	F&G	110 V AC UPS	DO	HW	FG-UPS-001
11	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
			Voltage Sample					XV-UPS-002-CH01
			Fault Status					XF-UPS-002-CH01
			Isolation Command					ESD
Inhibit to Boost (Off)	HVAC Fan (Ctrl)	Charger	DO	HW	INB-HVAC-1102A			
12	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
			Voltage Sample					XV-UPS-002-CH02
			Fault Status					XF-UPS-002-CH02
			Isolation Command					ESD
Inhibit to Boost (Off)	HVAC Fan (Ctrl)	Charger	DO	HW	INB-HVAC-1102B			
13	GCS-24-UPS-002	24 V DC UPS-002	Isolation of Battery Bank	F&G	24 V DC UPS	DO	HW	FG-UPS-002
14	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
			Voltage					XV-CHG-001-CH01
			Fault Status					XF-CHG-001-CH01
			Isolation Command					ESD
Inhibit to Boost (Off)	HVAC Fan (Swg)	Charger	DO	HW	INB-HVAC-1103A			
15	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
			Voltage					XV-CHG-001-CH02
			Fault Status					XF-CHG-001-CH02
			Isolation Command					ESD
Inhibit to Boost (Off)	HVAC Fan (Swg)	Charger	DO	HW	NB-HVAC-1103B			
16	GCS-110-UPS-001	110 V DC UPS-001	Isolation of Battery Bank	F&G	110 V DC UPS	DO	HW	FG-UPS-003
17	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
18	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

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 - -۷۳ - ۹۱۸۴

بروز	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدارک	سرپال	نسخه
BK	GCS	PEDCO	120	EL	LI	0005	D02

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
19	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
20	GCS-11000-SWG-001A	D02 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	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
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	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
29	GCS-11000-SWG-001B	D02 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
			Stop Command	RCP	MV SWG	DO	HW	XSP-MV-001A-Q4
30	GCS-400-NSWG	400 V SWGR-Incoming A-Q1	Multifunction Meter	LV SWG	DCS	DI	SL	XM-LV-IN1
			Multifunction Meter	LV SWG	DCS	DI	SL	XM-LV-IN2
32	GCS-11000-SWG-001A	D02 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
33	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