

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							  
	I/O LIST FOR ESD SYSTEMS							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	LI	0003	D04
								شماره صفحه: ۱ از ۱۱

طرح نگهداشت و افزایش تولید ۲۷ مخزن

I/O LIST FOR ESD SYSTEMS

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D04	DEC.2024	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D03	OCT.2023	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D02	SEP.2022	AFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	MAY.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	JAN.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	

Class: 1

CLIENT Doc. Number: F0Z-708969

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



I/O LIST FOR ESD SYSTEMS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

LI

سریال

0003

نسخه

D04

شماره صفحه: ۲ از ۱۱

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X	X	X	X
2	X	X	X	X	X
3	X	X		X	X
4	X	X	X	X	X
5	X	X	X	X	
6	X	X	X	X	X
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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



I/O LIST FOR ESD SYSTEMS

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	شماره پیمان:
D04	0003	LI	IN	120	PEDCO	GCS	BK	۰۵۳ - ۰۷۳ - ۹۱۸۴

شماره صفحه: ۳ از ۱۱

D04

REFERENCES:

Symbol & Legend For PFD and P&ID

P&ID - Gas Compression Inlet Gas Pipeline (Binak)

P&ID - Gas Compression Inlet Gas Pipeline (Golghari)

P&ID - Slug Catcher System

P&ID - Gas Compression Inlet Knock Out Drum

P&ID - 1st Stage Gas Compression Suction Drums

P&ID - 1st Stage Gas Compression Compressors

P&ID - 1st Stage Gas Compression Air Coolers

P&ID - 2nd Stage Gas Compression Suction Drums

P&ID - 2nd Stage Gas Compression Compressors

P&ID - 2nd Stage Gas Compression Air Coolers

P&ID - 2nd Stage Gas Compression Discharge Drum

P&ID - Gas Compression Dehydration Package

P&ID - Lean Glycol Storage Tank

P&ID - Instrument & Plant Air System

P&ID - Nitrogen Generation System

P&ID - Close Drain System

P&ID - Corrosion Inhibitor Package

P&ID - Methanol Injection Package

P&ID - LP Flare System

P&ID - Oily Water Sewer

P&ID - Fuel Gas System

P&ID - Diesel Oil System

P&ID - Potable Water System

P&ID - Glycol Sump Drum

P&ID - Fire Water Network

P&ID - Total Flooding System For Extension of Existing Elect. Building

P&ID - Gas Pipeline (to Siahmakan G.I. Station)

Data Sheets For ESD Console/F&G Matrix Panel

ESD Level Hierarchy

Electrical I/O Signal List

BK-GCS-PEDCO-120-PR-PI-0001_D06

BK-GCS-PEDCO-120-PR-PI-0002_D08

BK-GCS-PEDCO-120-PR-PI-0003_D08

BK-GCS-PEDCO-120-PR-PI-0004_D10

BK-GCS-PEDCO-120-PR-PI-0005_D10

BK-GCS-PEDCO-120-PR-PI-0006_D10

BK-GCS-PEDCO-120-PR-PI-0007_D09

BK-GCS-PEDCO-120-PR-PI-0008_D10

BK-GCS-PEDCO-120-PR-PI-0009_D09

BK-GCS-PEDCO-120-PR-PI-0010_D08

BK-GCS-PEDCO-120-PR-PI-0011_D10

BK-GCS-PEDCO-120-PR-PI-0012_D09

BK-GCS-PEDCO-120-PR-PI-0013_D09

BK-GCS-PEDCO-120-PR-PI-0014_D09

BK-GCS-PEDCO-120-PR-PI-0015_D08

BK-GCS-PEDCO-120-PR-PI-0016_D08

BK-GCS-PEDCO-120-PR-PI-0017_D09

BK-GCS-PEDCO-120-PR-PI-0018_D09

BK-GCS-PEDCO-120-PR-PI-0019_D07

BK-GCS-PEDCO-120-PR-PI-0020_D9

BK-GCS-PEDCO-120-PR-PI-0021_D05

BK-GCS-PEDCO-120-PR-PI-0022_D09

BK-GCS-PEDCO-120-PR-PI-0023_D08

BK-GCS-PEDCO-120-PR-PI-0024_D08

BK-GCS-PEDCO-120-PR-PI-0025_D09

BK-GCS-PEDCO-120-SA-PI-0001_D06

BK-GCS-PEDCO-120-SA-PI-0002_D03

BK-PPL-PEDCO-320-PR-PI-0001_D05

BK-GCS-PEDCO-120-IN-DT-0017_D04

BK-GCS-PEDCO-120-IN-DG-0003_D02

BK-GCS-PEDCO-120-EL-LI-0005-D03

NOTES:

NOTE 1 : ALL OF ANALOG TRANSMITTER SHALL BE CONSIDERED INTRINSICALLY SAFE (EEXIA) & ALL OF DIGITAL TRANSMITTER ARE NON INTRINSICALLY SAFE (EEXD).

NOTE 2 : I/O CARDS & ACCESSORIES SHALL BE SELECTED IN ACCORDANCE WITH " SPECIFICATION FOR CONTROL SYSTEM".

NOTE 3 : ESD EQUIPMENT & ALL OF EQUIPMENT THAT IS ASSIGNED IN A CONTROL LOOP, ARE REDUNDANT.

NOTE 4 : ALL I/Os REQUIRED FOR ESD SHALL BE SHOWN IN DCS BY SERIAL LINK.



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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



I/O LIST FOR ESD SYSTEMS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

BK

GCS

PEDCO

120

IN

LI

0003

D04

شماره صفحه: ۴ از ۱۱

ESD I/O SUMMERY COUNT

D04

ITEM	I/O TYPE	IS/NIS	R/NR	DESCRIPTION	QTY OF SIGNALS	QTY (+25% SPARE)	REMARKS
1	AI-IS-R	IS	R	ANALOGUE INPUT HARDWARE SIGNAL (INTRINSICALLY SAFE, REDUNDANT)	59	74	NOTES 1,2,3
2	AI-IS-NR	IS	NR	ANALOGUE INPUT HARDWARE SIGNAL (INTRINSICALLY SAFE, NON-REDUNDANT)	0	0	NOTES 1,2,3
3	AO-IS-R	IS	R	ANALOGUE OUTPUT HARDWARE SIGNAL (INTRINSICALLY SAFE, REDUNDANT)	0	0	NOTES 1,2,3
4	AO-IS-NR	IS	NR	ANALOGUE OUTPUT HARDWARE SIGNAL (INTRINSICALLY SAFE, NON-REDUNDANT)	0	0	NOTES 1,2,3
5	DI-NIS-R	NIS	R	DIGITAL INPUT HARDWARE SIGNAL (NON INTRINSICALLY SAFE, NON-REDUNDANT)	40	50	NOTES 1,2,3
6	DI-NIS-NR	NIS	NR	DIGITAL INPUT HARDWARE SIGNAL (NON INTRINSICALLY SAFE, NON-REDUNDANT)	0	0	NOTES 1,2,3
7	DO-NIS-R	NIS	R	DIGITAL OUTPUT HARDWARE SIGNAL (NON INTRINSICALLY SAFE, REDUNDANT)	89	112	NOTES 1,2,3
8	DO-NIS-NR	NIS	NR	DIGITAL OUTPUT HARDWARE SIGNAL (NON INTRINSICALLY SAFE, NON-REDUNDANT)	0	0	NOTES 1,2,3

ABBREVIATIONS:

I/O	INPUT / OUTPUT	DCS:	DISTRIBUTED CONTROL SYSTEM
DI:	DIGITAL INPUT SIGNAL	ESD:	EMERGENCY SHUT DOWN SYSTEM
DO:	DIGITAL OUTPUT SIGNAL	F&G	FIRE AND GAS CONTROL SYSTEM
AI:	ANALOGUE INPUT SIGNAL	MCC:	MOTOR CONTROL CENTER
AO:	ANALOGUE OUTPUT SIGNAL	IRP:	INTERPOSING RELAY PANEL
IND:	INDICATION	CH:	CHANNEL
STA:	STATUS	ADD:	ADDRESS
COM:	COMMAND	TB:	TERMINAL BLOCK
IS	INTRINSICALLY SAFE	R:	REDUNDANT
NIS	NON INTRINSICALLY SAFE	NR:	NON-REDUNDANT

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شماره پیمان: ۹۱۸۴ - ۰۳ - ۰۵۲			I/O LIST FOR ESD SYSTEMS							شماره صفحه: ۵ از ۱۱														
			پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال											نسخه				
			BK	GCS	PEDCO	120	IN	LI	0003	D04														
I/O List For ESD System																								
ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET					Marshalling Cabinet		ALARM				FUNCTION		REMARK	REV.	
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TR NO.	ADD.	HH	H	L	LL	IND/STA			COM.
1	1	ESOV-2101	Solenoid Valve	To Inlet K.O. Drum (V-2105)	BK-GCS-PEDCO-120-PR-PI-0002	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
2	1	ESOV-2102	Solenoid Valve	To Slug Catcher (V-2104)	BK-GCS-PEDCO-120-PR-PI-0003	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
3	1	PIT-2111	Pressure Indicator Transmitter	Gas Transfer Pipe	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X					X		
4	1, 3	LIT-2112	Level Indicator Transmitter	Slug Catcher Drum (V-2104)	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
5	3	PIT-2115	Pressure Indicator Transmitter	From P-2101A/B to BINAK Production Unit	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
6	3	PIT-2114A	Pressure Indicator Transmitter	Slug Pump P-2101A Suction Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
7	3	PIT-2114B	Pressure Indicator Transmitter	Slug Pump P-2101B Suction Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
8	3	PIT-2116A	Pressure Indicator Transmitter	Slug Pump P-2101A Discharge Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
9	3	PIT-2116B	Pressure Indicator Transmitter	Slug Pump P-2101B Discharge Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
10	3	ESD-P-2111-A	Trip Command	Slug Pump (P-2101A)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
11	3	ESD-P-2111-B	Trip Command	Slug Pump (P-2101B)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
12	3	ESOV-2112	Solenoid Valve	From P-2101A/B to BINAK Production Unit (After Slug Pumps)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
13	3	ESOV-2113	Solenoid Valve	From V-2105 to Closed Drain header	BK-GCS-PEDCO-120-PR-PI-0005	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
14	1	LIT-2117	Level Indicator Transmitter	Inlet Knock Out Drum (V-2105)	BK-GCS-PEDCO-120-PR-PI-0005	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
15	3	LIT-2118	Level Indicator Transmitter	Inlet Knock Out Drum (V-2105)	BK-GCS-PEDCO-120-PR-PI-0005	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
16	1	PIT-2116	Pressure Indicator Transmitter	Slug Catcher Output	BK-GCS-PEDCO-120-PR-PI-0005	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
17	1A	BSOV-2110	Solenoid Valve	Inlet K.O. Drum to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0005	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
18	2	ESOV-2121A	Solenoid Valve	1st Stage Gas Compression Suction Train A	BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
19	2, 3	LIT-2122A	Level Indicator Transmitter	1st Stage Gas Compression Suction Drum Train #A (V-2101-A)	BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
20	3	ESOV-2122A	Solenoid Valve	Outlet Line of Suction Drum Train A 1st Stage	BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
21	2	ESOV-2121B	Solenoid Valve	1st Stage Gas Compression Suction Train B	BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
22	2, 3	LIT-2122B	Level Indicator Transmitter	1st Stage Gas Compression Suction Drum Train #B (V-2101-B)	BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
23	3	ESOV-2122B	Solenoid Valve	Outlet Line of Suction Drum Train B 1st Stage	BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
24	2	ESOV-2121C	Solenoid Valve	1st Stage Gas Compression Suction Train C	BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
25	2, 3	LIT-2122C	Level Indicator Transmitter	1st Stage Gas Compression Suction Drum Train #C (V-2101-C)	BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
26	3	ESOV-2122C	Solenoid Valve	Outlet Line of Suction Drum Train C 1st Stage	BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
27	2	PIT-2122A	Pressure Indicator Transmitter	Train A Pressure in Suction of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
28	2	PIT-2125A	Pressure Indicator Transmitter	Train A Pressure in discharge of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
29	2	TIT-2124A	Temperature Indicator Transmitter	Train A Temperature in discharge of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
30	2A	ESDR2A-C-2101-A	Trip Command	Compressor Train A (C-2101-A) Trip With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DO-NIS-R	ESD	UCP-C-2101	*	*	*	*	*	*	*	*						X		
31	2	ESDR2-C-2101-A	Trip Command	Compressor Train A (C-2101-A) Trip Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DO-NIS-R	ESD	UCP-C-2101	*	*	*	*	*	*	*	*						X		
32	2A	ESD2A-C-2101-A	Trip Alarm (Request)	Compressor Train A (C-2101-A) Trip With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DI-NIS-R	UCP-C-2101	ESD	*	*	*	*	*	*	*	*						X		
33	2	ESD2-C-2101-A	Trip Alarm (Request)	Compressor Train A (C-2101-A) Trip Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DI-NIS-R	UCP-C-2101	ESD	*	*	*	*	*	*	*	*					X			

 NISOC			تکده‌اشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 شرکت توسعه و بهره‌برداری HIRGAN				شماره صفحه: ۶ از ۱۱																
شماره پیمان: ۰۵۳ – ۰۳۲ – ۹۱۸۴			بروژه	بنه کاری	صادر کننده	تهیه‌ات	رشته	نوع مدرک	سریال	نسخه																				
			BK	GCS	PEDCO	120	IN	LI	0003	D04																				
I/O List For ESD System																														
ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET					Marshalling Cabinet		ALARM				FUNCTION		REMARK	REV.							
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TB NO.	ADD.	HH	H	L	LL	IND/STA			COM.						
	2A	BSOV-2122A	Solenoid Valve	1st Stage Gas Compressor (C-2101-A) Bypass Valve	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						*	D04 Deleted							
34	2	PIT-2122B	Pressure Indicator Transmitter	Train B Pressure in Suction of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X									
35	2	PIT-2125B	Pressure Indicator Transmitter	Train B Pressure in discharge of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
36	2	TIT-2124B	Temperature Indicator Transmitter	Train B Temperature in discharge of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
37	2A	ESDR2A-C-2101-B	Trip Command	Compressor Train B (C-2101-B) Trip With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DO-NIS-R	ESD	UCP-C-2101	*	*	*	*	*	*	*	*						X								
38	2	ESDR2-C-2101-B	Trip Command	Compressor Train B (C-2101-B) Trip Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DO-NIS-R	ESD	UCP-C-2101	*	*	*	*	*	*	*	*						X								
39	2A	ESD2A-C-2101-B	Trip Alarm (Request)	Compressor Train B (C-2101-B) Trip With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DI-NIS-R	UCP-C-2101	ESD	*	*	*	*	*	*	*	*					X									
40	2	ESD2-C-2101-B	Trip Alarm (Request)	Compressor Train B (C-2101-A) Trip Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DI-NIS-R	UCP-C-2101	ESD	*	*	*	*	*	*	*	*					X									
	2A	BSOV-2122B	Solenoid Valve	1st Stage Gas Compressor (C-2101-B) Bypass Valve	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						*	D04 Deleted							
41	2	PIT-2122C	Pressure Indicator Transmitter	Train C Pressure in Suction of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X									
42	2	PIT-2125C	Pressure Indicator Transmitter	Train C Pressure in discharge of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
43	2	TIT-2124C	Temperature Indicator Transmitter	Train C Temperature in discharge of 1st Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
44	2A	ESDR2A-C-2101-C	Trip Command	Compressor Train C (C-2101-C) Trip With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DO-NIS-R	ESD	UCP-C-2101	*	*	*	*	*	*	*	*						X								
45	2	ESDR2-C-2101-C	Trip Command	Compressor Train C (C-2101-C) Trip Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DO-NIS-R	ESD	UCP-C-2101	*	*	*	*	*	*	*	*						X								
46	2A	ESD2A-C-2101-C	Trip Alarm (Request)	Compressor Train C (C-2101-C) Trip With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DI-NIS-R	UCP-C-2101	ESD	*	*	*	*	*	*	*	*					X									
47	2	ESD2-C-2101-C	Trip Alarm (Request)	Compressor Train C (C-2101-C) Trip Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DI-NIS-R	UCP-C-2101	ESD	*	*	*	*	*	*	*	*					X									
	2A	BSOV-2122C	Solenoid Valve	1st Stage Gas Compressor (C-2101-C) Bypass Valve	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						*	D04 Deleted							
48	3	VSHH-2121A	Vibration Switch	From 1st Stage Gas Compressor Air Coolers (AE-2101-A)	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X									
49	3	VSHH-2122A	Vibration Switch	From 1st Stage Gas Compressor Air Coolers (AE-2101-A)	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X									
50	3	ESD-AE-2101-A-1	Trip Command	From 1st Stage Gas Compressor Air Coolers (AE-2101-A)	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X								
51	3	ESD-AE-2101-A-2	Trip Command	From 1st Stage Gas Compressor Air Coolers (AE-2101-A)	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X								
52	2	TIT-2125A	Temperature Indicator Transmitter	Train A Temperature after 1st Stage Gas Compressor Air Cooler	BK-GCS-PEDCO-120-PR-PI-0008 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
53	3	VSHH-2121B	Vibration Switch	From 1st Stage Gas Compressor Air Coolers (AE-2101-B)	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X									
54	3	VSHH-2122B	Vibration Switch	From 1st Stage Gas Compressor Air Coolers (AE-2101-B)	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X									
55	3	ESD-AE-2101-B-1	Trip Command	From 1st Stage Gas Compressor Air Coolers (AE-2101-B)	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X								
56	3	ESD-AE-2101-B-2	Trip Command	From 1st Stage Gas Compressor Air Coolers (AE-2101-B)	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X								
57	2	TIT-2125B	Temperature Indicator Transmitter	Train B Temperature after 1st Stage Gas Compressor Air Cooler	BK-GCS-PEDCO-120-PR-PI-0008 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
58	3	VSHH-2121C	Vibration Switch	From 1st Stage Gas Compressor Air Coolers (AE-2101-C)	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X									
59	3	VSHH-2122C	Vibration Switch	From 1st Stage Gas Compressor Air Coolers (AE-2101-C)	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X									
60	3	ESD-AE-2101-C-1	Trip Command	From 1st Stage Gas Compressor Air Coolers (AE-2101-C)	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X								
61	3	ESD-AE-2101-C-2	Trip Command	From 1st Stage Gas Compressor Air Coolers (AE-2101-C)	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X								
62	2	TIT-2125C	Temperature Indicator Transmitter	Train C Temperature after 1st Stage Gas Compressor Air Cooler	BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X									
63	2, 3	LIT-2132A	Level Indicator Transmitter	2nd Stage Gas Compressor Suction Drum Train #A (V-2102-A)	BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X		X	X									

 NISOC				تکده‌دات و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 HIRGAN تولید گاز و مایعات													
شماره پیمان: ۰۵۳ - ۰۲۳ - ۹۱۸۴				I/O LIST FOR ESD SYSTEMS							شماره صفحه: ۷ از ۱۱													
				پروژه	بسته کاری	صادر کننده	تهیه‌ات	رشته	نوع مدرک	سریال									نسخه					
				BK	GCS	PEDCO	120	IN	LI	0003	D04													
I/O List For ESD System																								
ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET					Marshalling Cabinet		ALARM				FUNCTION		REMARK	REV.	
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TB NO.	ADD.	HH	H	L	LL	IND/STA			COM.
64	2A	BSOV-2134A	Solenoid Valve	From V-2102-A to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
65	3	ESOV-2131A	Solenoid Valve	From V-2102-A to Closed Drain header	BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
66	2 , 3	LIT-2132B	Level Indicator Transmitter	2nd Stage Gas Compressor Suction Drum Train #A (V-2102-B)	BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X		X	X			
67	2A	BSOV-2134B	Solenoid Valve	From V-2102-B to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
68	3	ESOV-2131B	Solenoid Valve	From V-2102-B to Closed Drain header	BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
69	2 , 3	LIT-2132C	Level Indicator Transmitter	2nd Stage Gas Compressor Suction Drum Train #A (V-2102-C)	BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X		X	X			
70	2A	BSOV-2134C	Solenoid Valve	From V-2102-C to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
71	3	ESOV-2131C	Solenoid Valve	From V-2102-C to Closed Drain header	BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
72	2	PIT-2131A	Pressure Indicator Transmitter	Train A Pressure in Suction of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
73	2	PIT-2134A	Pressure Indicator Transmitter	Train A Pressure in discharge of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
74	2	TIT-2134A	Temperature Indicator Transmitter	Train A Temperature in discharge of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
75	2	PIT-2131B	Pressure Indicator Transmitter	Train B Pressure in Suction of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
76	2	PIT-2134B	Pressure Indicator Transmitter	Train B Pressure in discharge of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
77	2	TIT-2134B	Temperature Indicator Transmitter	Train B Temperature in discharge of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
78	2	PIT-2131C	Pressure Indicator Transmitter	Train C Pressure in Suction of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
79	2	PIT-2134C	Pressure Indicator Transmitter	Train C Pressure in discharge of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
80	2	TIT-2134C	Temperature Indicator Transmitter	Train C Temperature in discharge of 2nd Stage of Compressor	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
81	3	ESD-AE-2102-A-1	Trip Command	From 2nd Stage Gas Compressor Air Coolers (AE-2102-A)	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
82	3	ESD-AE-2102-A-2	Trip Command	From 2nd Stage Gas Compressor Air Coolers (AE-2102-A)	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
83	3	VSHH-2131A	Vibration Switch	From 2nd Stage Gas Compressor Air Coolers (AE-2102-A)	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X			
84	3	VSHH-2132A	Vibration Switch	From 2nd Stage Gas Compressor Air Coolers (AE-2102-A)	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X			
85	2	TIT-2136A	Temperature Indicator Transmitter	Train A Temperature after 2nd Stage Gas Compressor Air Cooler	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
86	2A	BSOV-2132A	Solenoid Valve	From AE-2102-A to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
87	2	ESOV-2133A	Solenoid Valve	From AE-2102-A to Gas Compression Discharge Drum (V-2103)	BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
88	3	ESD-AE-2102-B-1	Trip Command	From 2nd Stage Gas Compressor Air Coolers (AE-2102-B)	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
89	3	ESD-AE-2102-B-2	Trip Command	From 2nd Stage Gas Compressor Air Coolers (AE-2102-B)	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
90	3	VSHH-2131B	Vibration Switch	From 2nd Stage Gas Compressor Air Coolers (AE-2102-B)	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X			
91	3	VSHH-2132B	Vibration Switch	From 2nd Stage Gas Compressor Air Coolers (AE-2102-B)	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X			
92	2	TIT-2136B	Temperature Indicator Transmitter	Train B Temperature after 2nd Stage Gas Compressor Air Cooler	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
93	2A	BSOV-2132B	Solenoid Valve	From AE-2102-B to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
94	2	ESOV-2133B	Solenoid Valve	From AE-2102-B to Gas Compression Discharge Drum (V-2103)	BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
95	3	ESD-AE-2102-C-1	Trip Command	From 2nd Stage Gas Compressor Air Coolers (AE-2102-C)	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
96	3	ESD-AE-2102-C-2	Trip Command	From 2nd Stage Gas Compressor Air Coolers (AE-2102-C)	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		

 NISOC			تجهداشت و افزایش تولید میدان نفتی بینک سطح الارض						 توسعه و بهره‌برداری														
شماره پیمان: ۰۵۲ – ۰۲۳ – ۹۱۸۴			IO LIST FOR ESD SYSTEMS								شماره صفحه: ۱۱ از ۸												
			پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه													
			BK	GCS	PEDCO	120	IN	LI	0003	D04													
I/O List For ESD System																							
ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET				Marshalling Cabinet		ALARM				FUNCTION		REMARK	REV.	
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TB NO.	ADD.	HH	H	L	LL			IND/STA
97	3	VSHH-2131C	Vibration Switch	From 2nd Stage Gas Compressor Air Coolers (AE-2102-C)	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X		
98	3	VSHH-2132C	Vibration Switch	From 2nd Stage Gas Compressor Air Coolers (AE-2102-C)	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	DI-NIS-R	FIELD	ESD	*	*	*	*	*	*	*	*					X		
99	2	TIT-2136C	Temperature Indicator Transmitter	Train C Temperature after 2nd Stage Gas Compressor Air Cooler	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		
100	2A	BSOV-2132C	Solenoid Valve	From AE-2102-C to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
101	2	ESOV-2133C	Solenoid Valve	From AE-2102-B to Gs Compression Discharge Drum (V-2103)	BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
102	1A	BSOV-2141	Solenoid Valve	From Methanol header to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
103	1	ESOV-2142	Solenoid Valve	From V-2103 to Dehydration Package (PK-2101)	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
104	1	ESOV-2143	Solenoid Valve	From V-2103 to Dehydration Package (PK-2101)	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
105	1, 3	LIT-2142	Level Indicator Transmitter	Gas Compression discharge Drum (V-2103)	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X		
106	3	ESOV-2144	Solenoid Valve	From V-2103 to Closed Drain header	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
107	1A	BSOV-2151	Solenoid Valve	Dehydration Package (PK-2101) to LP Flare header	BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
108	3	ESD-PK-2101	Trip Command	Dehydration Package (PK-2101)	BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3)	DO-NIS-R	ESD	BMS-DH-2150	*	*	*	*	*	*	*	*						X	
109	3	ESD3-PK-2101	Trip Alarm (Request)	Dehydration Package (PK-2101)	BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3)	DI-NIS-R	BMS-DH-2150	ESD	*	*	*	*	*	*	*	*						X	
110	3	LIT-2161	Level Indicator Transmitter	Lean Glycol Storage Tank (TK-2102)	BK-GCS-PEDCO-120-PR-PI-0014 (1 of 1)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
111	3	ESD-P-2161-A	Trip Command	Glycol transfer Pump (P-2103A)	BK-GCS-PEDCO-120-PR-PI-0014 (1 of 1)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X	
112	3	ESD-P-2161-B	Trip Command	Glycol transfer Pump (P-2103B)	BK-GCS-PEDCO-120-PR-PI-0014 (1 of 1)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X	
113	3	PIT-2202	Pressure Indicator Transmitter	Air Compressor Package (PK-C-2203 A/B) / AIR DRYER Package (PK-DR-2203 A/B)	BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
114	3	ESOV-2201	Solenoid Valve	INSTRUMENT & PLANT AIR SYSTEM header (PK-C-2203A/B , PK-DR-2203A/B)	BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X	
115	3	ESD-PK-C-2203 A	Trip Command	Air Compressor Package (PK-C-2203 A)	BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2)	DO-NIS-R	ESD	PK-AC-2203-A	*	*	*	*	*	*	*	*						X	
116	3	ESD-PK-C-2203 B	Trip Command	Air Compressor Package (PK-C-2203 B)	BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2)	DO-NIS-R	ESD	PK-AC-2203-B	*	*	*	*	*	*	*	*						X	
117	1A	PIT-2201A	Pressure Indicator Transmitter	From Air Drayer Package (PK-DR-2203) to Instrument Header	BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
118	1A	PIT-2201B	Pressure Indicator Transmitter	From Air Drayer Package (PK-DR-2203) to Instrument Header	BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
119	1A	PIT-2201C	Pressure Indicator Transmitter	From Air Drayer Package (PK-DR-2203) to Instrument Header	BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
120	1	PIT-2211	Pressure Indicator Transmitter	Nitrogen Reciever Output	BK-GCS-PEDCO-120-PR-PI-0016	AI-IS-R	FIELD	ESD	▲	▲	▲	▲	▲	▲	▲	▲				X	X		
121	1	ESD-PK-G-2204	Trip Command	Nitrogen Package	BK-GCS-PEDCO-120-PR-PI-0016	DO-NIS-R	ESD	PK-G-2204	*	*	*	*	*	*	*	*						X	D04 Added
122	3	PIT-2222A	Pressure Indicator Transmitter	Closed Drain Drum Pump P-2202A Suction Line	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	AI-IS-R	FIELD	ESD	▲	▲	▲	▲	▲	▲	▲	▲				X	X		
123	3	PIT-2222B	Pressure Indicator Transmitter	Closed Drain Drum Pump P-2202B Suction Line	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	AI-IS-R	FIELD	ESD	▲	▲	▲	▲	▲	▲	▲	▲				X	X		
124	3	ESD-P-2221-A	Trip Command	Closed Drain Drum Pump (P-2202-A)	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X	
125	3	ESD-P-2221-B	Trip Command	Closed Drain Drum Pump (P-2202-B)	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X	
126	1A	ESD-P-2222-A	Trip Command	Sump Pump (P-2203-A)	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X	
127	1A	ESD-P-2222-B	Trip Command	Sump Pump (P-2203-B)	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X	
128	1	ESD-PK-2207	Trip Command	Corrosion Inhibitor Package (PK-2207A/B/C/D)	BK-GCS-PEDCO-120-PR-PI-0018	DO-NIS-R	ESD	PK-2207	*	*	*	*	*	*	*	*						X	

 NISOC			تکده‌اشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 HIRGAN 														
شماره پیمان: ۰۵۳ – ۰۲۳ – ۹۱۸۴			I/O LIST FOR ESD SYSTEMS							شماره صفحه: ۹ از ۱۱														
			پروژه	بسته کاری	صادر کننده	تهیه‌ات	رشته	نوع مدرک	سریال	نسخه														
			BK	GCS	PEDCO	120	IN	LI	0003	D04														
I/O List For ESD System																								
ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET					Marshalling Cabinet		ALARM				FUNCTION		REMARK	REV.	
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TB NO.	ADD.	HH	H	L	LL	IND/STA			COM.
129	3	ESD-P-2251A	Trip Command	LP Flare K.O. Drum Pump (P-2201 A)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
130	3	ESD-P-2251B	Trip Command	LP Flare K.O. Drum Pump (P-2201 B)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
131	1	LIT-2252A	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X					X		
132	1	LIT-2252B	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X					X		
133	1	LIT-2252C	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X					X		
134	3	PIT-2251A	Pressure Indicator Transmitter	LP Flare K.O. Drum Pump (P-2201 A)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
135	3	PIT-2251B	Pressure Indicator Transmitter	LP Flare K.O. Drum Pump (P-2201 B)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
136	3	LIT-2253	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
137	1A	FST-2201	Start Command	LP Flare Stack Package (Air Blower)	BK-GCS-PEDCO-120-PR-PI-0020 (3 of 3)	DO-NIS-R	ESD	LOCAL MCC OR PDP IS IN VENDOR SCOPE OF WORK	*	*	*	*	*	*	*	*						X		
138	3	ESOV-2272	Solenoid Valve	From Inlet K.O. Drum (V-2105) to V-2205	BK-GCS-PEDCO-120-PR-PI-0022 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
139	3	LIT-2272	Level Indicator Transmitter	Fuel Gas K.O. Drum (V-2205)	BK-GCS-PEDCO-120-PR-PI-0022 (1 of 1)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
140	3	ESOV-2271	Solenoid Valve	From Inlet K.O. Drum (V-2105) to Closed Drain header	BK-GCS-PEDCO-120-PR-PI-0022 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
141	1	ESD-P-2206	Trip Command	Fire Water Diesel Pump	BK-GCS-PEDCO-120-PR-PI-0023	DO-NIS-R	ESD	P-2206	*	*	*	*	*	*	*	*						X		D04 Added
142	1A	ESD-P-2293	Trip Command	Glycol Drain Pump (P-2104)	BK-GCS-PEDCO-120-PR-PI-0025 (1 of 1)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
143	1	ESOV-3201	Solenoid Valve	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	DO-NIS-R	ESD	IRP	*	*	*	*	*	*	*	*						X		
144	1	PIT-3201A	Pressure Indicator Transmitter	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
145	1	PIT-3201B	Pressure Indicator Transmitter	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
146	1	PIT-3201C	Pressure Indicator Transmitter	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	AI-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
147	0	ESD R0-UPS-A	Trip Alarm (Request)	110V AC UPS, CH01 Fault Status	---	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*						X		
148	0	ESD R0-UPS-B	Trip Alarm (Request)	110V AC UPS, CH02 Fault Status	---	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*						X		
149	0	ESDR 0-F&G	Trip Alarm (Request)	Confirmed Flammable Gas in HVAC Intake (Command From F&G)	---	DI-NIS-R	F&G	ESD	*	*	*	*	*	*	*	*						X		
150	0	ESD 0-EL1A	Isolation Command	11/0.4 KV SWGR-Transformer Feeder-Q2 (1) (Emergency + Normal Power Isolation)	---	DO-NIS-R	ESD	ELECTRICAL MV SWG (IRP)	*	*	*	*	*	*	*	*						X		
151	0	ESD 0-EL1B	Isolation Command	11/0.4 KV SWGR-Transformer Feeder-Q2 (2) (Emergency + Normal Power Isolation)	---	DO-NIS-R	ESD	ELECTRICAL MV SWG (IRP)	*	*	*	*	*	*	*	*						X		
152	0	ESD 0-EL2A	Isolation Command	110V AC UPS, CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (UPS CHARGER)	*	*	*	*	*	*	*	*						X		
153	0	ESD 0-EL2B	Isolation Command	110V AC UPS, CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (UPS CHARGER)	*	*	*	*	*	*	*	*						X		
154	1A	ESDR 1A-F&G	Trip Alarm (Request)	Confirmed Flammable/ Toxic Gas in Process Area (Command From F&G)	---	DI-NIS-R	F&G	ESD	*	*	*	*	*	*	*	*						X		

 NISOC			تجهداشت و افزایش تولید میدان نفتی بینک سطح الارض																					
																				احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک				
			I/O LIST FOR ESD SYSTEMS																					
شماره پیمان:			پروژه	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۰ از ۱۱													
۰۵۳ – ۰۲۳ – ۹۱۴۴			BK	GCS	PEDCO	120	IN	LI	0003	D04														
I/O List For ESD System																								
ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET					Marshalling Cabinet			ALARM				FUNCTION		REMARK	REV.
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TR NO.	ADD.	HH	H	L	LL	IND/STA	COM		
155	1	ESDR 1-DC	Trip Alarm (Request)	DC Charger Failure	---	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*						X		
156	1	ESDR 1-PCS	Trip Alarm (Request)	PCS Failure	---	DI-NIS-R	DCS	ESD	*	*	*	*	*	*	*	*						X		
157	1	ESDR 1-FLR	Trip Alarm (Request)	Flare Ignition Failure	BK-GCS-PEDCO-120-PR-PI-0020 (3 of 3)	DI-NIS-R	DCS	ESD	*	*	*	*	*	*	*	*						X		
158	1A	ESD 1A-F&G	Trip Alarm (Request)	Confirmed Fire in Fire Zone (Process) Area (Command From F&G)	---	DI-NIS-R	F&G	ESD	*	*	*	*	*	*	*	*						X		
159	0	ESD0-LAMP	Signal Lamp	Total Plant Shut Down With Automatic Depressurizing (ESD0)	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
160	1A	ESD1A-LAMP	Signal Lamp	Process Emergency Shut Down With Depressurizing (ESD1A)	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
161	2A	ESD2A-A-LAMP	Signal Lamp	Train A Shut Down With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
162	2A	ESD2A-B-LAMP	Signal Lamp	Train B Shut Down With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
163	2A	ESD2A-C-LAMP	Signal Lamp	Train C Shut Down With Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
164	---	LAMP-ESD-INH	Signal Lamp	ESD INHIBIT LAMP	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
165	---	LAMP-ESD-RST	Signal Lamp	ESD RESET LAMP	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
166	1	ESD1-LAMP	Signal Lamp	Process Emergency Shut Down Without Depressurizing (ESD1)	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
167	2	ESD2-A-LAMP	Signal Lamp	Train A Shut Down Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
168	2	ESD2-B-LAMP	Signal Lamp	Train B Shut Down Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
169	2	ESD2-C-LAMP	Signal Lamp	Train C Shut Down Without Depressurizing	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		
170	0	ESD0-PB	Emergency Stop Push Button	Total Plant Shut Down With Automatic Depressurizing (ESD0) P.B.	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*						X		
171	1A	ESD1A-PB	Emergency Stop Push Button	Process Emergency Shut Down With Depressurizing (ESD1A) P.B.	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*						X		
172	2A	ESD2A-A-PB	Emergency Stop Push Button	Train A Shut Down With Depressurizing (ESD2A-A) P.B.	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*						X		
173	2A	ESD2A-B-PB	Emergency Stop Push Button	Train B Shut Down With Depressurizing (ESD2A-B) P.B.	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*						X		
174	2A	ESD2A-C-PB	Emergency Stop Push Button	Train C Shut Down With Depressurizing (ESD2A-C) P.B.	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*						X		



تکده‌اشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره صفحه: ۱۱ از ۱۱

شماره پیمان:

۰۵۳ - ۰۲۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
D04	0003	LI	IN	120	PEDCO	GCS	BK

I/O List For ESD System



ITEM	ESD LEVEL	TAG	DESCRIPTION	SERVICE	P&ID	I/O TYPE	FROM	TO	SYSTEM CABINET					Marshalling Cabinet			ALARM				FUNCTION		REMARK	REV.
									CABINET NO.	RACK	SLOT	CH.	ADD.	CABINET NO.	TB NO.	ADD.	HH	H	L	LL	IND/STA	COM		
175	---	ESD-INH-SEL	Selector Switch With key	ESD INHIBIT SELECTOR SWITCH	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			
176	---	ESD-RST-PB	Momentary Yellow Push Button	Alarm and Causes Reset Push Button	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			
177	1	ESD1-PB	Emergency Stop Push Button	Process Emergency Shut Down Without Depressurizing (ESD1) P.B.	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			
178	2	ESD2-A-PB	Emergency Stop Push Button	ESD CONSOL (Train A Shut Down PB Without Depressurizing)	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			
179	2	ESD2-B-PB	Emergency Stop Push Button	ESD CONSOL (Train B Shut Down PB Without Depressurizing)	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			
180	2	ESD2-C-PB	Emergency Stop Push Button	ESD CONSOL (Train C Shut Down PB Without Depressurizing)	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			
181	---	ESD-ACK-PB	Momentary Yellow Push Button	Alarm and Causes Acknowledge Push Button	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D04 Added
182	---	LAMP-ESD-ACK	Signal Lamp	ESD ACKNOWLEDGE LAMP	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D04 Added
183	-	ESDI 0-EX	Trip Alarm (Request)	ESD 0 STATUS from Existing System	---	DI-NIS-R	EXISTING SYSTEM	ESD	*	*	*	*	*	*	*	*					X			
184	-	ESDI 0- NEW	Trip Command	ESD 0 to Existing System (Just Status)	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X		
185	0	ESD 0-EL3A	Isolation Command	24 V DC UPS-002-CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		
186	0	ESD 0-EL3B	Isolation Command	24 V DC UPS-002-CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		
187	0	ESD 0-EL4A	Isolation Command	110V DC Charger-001-CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		
188	0	ESD 0-EL4B	Isolation Command	110V DC Charger-001-CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		