



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:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

LI

سریال

0003

نسخه

D03

شماره صفحه: 1 از 11

طرح نگهداشت و افزایش تولید 27 مخزن

I/O LIST FOR ESD SYSTEMS

نگهداشت و افزایش تولید میدان نفتی بینک

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	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

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



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سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



I/O LIST FOR ESD SYSTEMS

شماره صفحه: 2 از 11

شماره پیمان:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
D03	0003	LI	IN	120	PEDCO	GCS	BK

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
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2	X	X	X	X	
3	X	X	X	X	
4	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

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 11
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	LI	0003	D03	

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

D03

BK-GCS-PEDCO-120-PR-PI-0001_D04

BK-GCS-PEDCO-120-PR-PI-0002_D07

BK-GCS-PEDCO-120-PR-PI-0003_D07

BK-GCS-PEDCO-120-PR-PI-0004_D07

BK-GCS-PEDCO-120-PR-PI-0005_D07

BK-GCS-PEDCO-120-PR-PI-0006_D07

BK-GCS-PEDCO-120-PR-PI-0007_D07

BK-GCS-PEDCO-120-PR-PI-0008_D07

BK-GCS-PEDCO-120-PR-PI-0009_D07

BK-GCS-PEDCO-120-PR-PI-0010_D06

BK-GCS-PEDCO-120-PR-PI-0011_D07

BK-GCS-PEDCO-120-PR-PI-0012_D07

BK-GCS-PEDCO-120-PR-PI-0013_D07

BK-GCS-PEDCO-120-PR-PI-0014_D07

BK-GCS-PEDCO-120-PR-PI-0015_D07

BK-GCS-PEDCO-120-PR-PI-0016_D07

BK-GCS-PEDCO-120-PR-PI-0017_D07

BK-GCS-PEDCO-120-PR-PI-0018_D07

BK-GCS-PEDCO-120-PR-PI-0019_D06

BK-GCS-PEDCO-120-PR-PI-0020_D07

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

BK-GCS-PEDCO-120-PR-PI-0022_D07

BK-GCS-PEDCO-120-PR-PI-0023_D07

BK-GCS-PEDCO-120-PR-PI-0024_D06

BK-GCS-PEDCO-120-PR-PI-0025_D07

BK-GCS-PEDCO-120-SA-PI-0001_D04

BK-GCS-PEDCO-120-SA-PI-0002_D02

BK-PPL-PEDCO-320-PR-PI-0001_D04

BK-GCS-PEDCO-120-IN-DT-0017_D00

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

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

NOTES:

NOTE 1 : ALL OF ANALOGUE 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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I/O LIST FOR ESD SYSTEMS

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

LI

سریال

0003

نسخه

D03

شماره صفحه: 4 از 11

ESD I/O SUMMERY COUNT

D03

ITEM	I/O TYPE	IS/NIS	R/NR	DESCRIPTION	QTY OF SIGNALS	QTY (+20% SPARE)	REMARKS
1	AI-IS-R	IS	R	ANALOGUE INPUT HARDWARE SIGNAL (INTRINSICALLY SAFE, REDUNDANT)	59	72	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)	39	47	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	107	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 صفحه: 5 از 11										شماره پیمان:													
053 - 073 – 9184										IO LIST FOR ESD SYSTEMS													
D03										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
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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		D03 Modified
4	1, 3	LIT-2112	Level Indicator Transmitter	Slug Catcher Drum (V-2104)	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	AH-S-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)	AH-S-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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		D03 Modified
7	3	PIT-2114B	Pressure Indicator Transmitter	Slug Pump P-2101B Suction Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		D03 Modified
8	3	PIT-2116A	Pressure Indicator Transmitter	Slug Pump P-2101A Discharge Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		D03 Modified
9	3	PIT-2116B	Pressure Indicator Transmitter	Slug Pump P-2101B Discharge Line	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		D03 Modified
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	AH-S-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	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
16	1	PIT-2116	Pressure Indicator Transmitter	Slug Catcher Output	BK-GCS-PEDCO-120-PR-PI-0005	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		D03 Modified
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		D03 Added
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		D03 Modified
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)	AH-S-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	D03 Modified
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		D03 Modified
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)	AH-S-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		D03 Modified
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		D03 Modified
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)	AH-S-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	D03 Modified
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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X		D03 Modified
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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		D03 Modified
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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X		D03 Modified
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	D03 Modified
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	D03 Modified
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		D03 Modified
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		D03 Modified
34	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	*	*	*	*	*	*	*	*						X	D03 Modified

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض							 														
			احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک																					
			NO LIST FOR ESD SYSTEMS																					
شماره پیمان:			پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 6 از 11													
053 - 073 - 9184			BK	GCS	PEDCO	120	IN	LI	0003	D03														
I/O List For ESD System															D03									
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.		
35	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			D03 Modified
36	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
37	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
38	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		D03 Modified
39	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		D03 Modified
40	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			D03 Modified
41	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			D03 Modified
42	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	*	*	*	*	*	*	*	*						X		D03 Modified
43	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			D03 Modified
44	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
45	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
46	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		D03 Modified
47	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		D03 Modified
48	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			D03 Modified
49	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			D03 Modified
50	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	*	*	*	*	*	*	*	*						X		D03 Modified
51	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			
52	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			
53	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		
54	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		
55	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
56	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			
57	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			
58	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		
59	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		
60	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
61	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			
62	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			
63	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		
64	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		
65	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D03 Modified
66	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)	AH-S-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X		X	X			D03 Modified
67	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		
68	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		

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض																					
			احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک																					
			IO LIST FOR ESD SYSTEMS																					
شماره پیمان:			پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 7 از 11													
053 - 073 – 9184			BK	GCS	PEDCO	120	IN	LI	0003	D03														
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.
69	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X						D03 Modified
70	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		
71	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		
72	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X		X	X			D03 Modified
73	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		
74	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		
75	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D03 Modified
76	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
77	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
78	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D03 Modified
79	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
80	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
81	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D03 Modified
82	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
83	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
84	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		
85	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		
86	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		
87	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		
88	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
89	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		
90	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		
91	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		
92	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		
93	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		
94	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		
95	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified
96	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		
97	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		
98	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		
99	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		
100	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		D03 Modified
101	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		D03 Modified
102	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	X					X			D03 Modified

 NISOC			تجهيزات و افزایش تولید میدان نفتی بینک سطح الارض																					
			احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک																					
			NO LIST FOR ESD SYSTEMS																					
شماره پیمان:			پروژه	بنه کاری	صادرکننده	تجهيزات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 8 از 11													
053 - 073 – 9184			BK	GCS	PEDCO	120	IN	LI	0003	D03														
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.		
103	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		
104	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		
105	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		
106	1	ESOV-2142	Solenoid Valve	From V-2103 to Dehdration Package (PK-2101)	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
107	1	ESOV-2143	Solenoid Valve	From V-2103 to Dehdration Package (PK-2101)	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	DO-NIS-R	ESD	FIELD	*	*	*	*	*	*	*	*						X		
108	1, 3	LIT-2142	Level Indicator Transmitter	Gas Compression discharge Drum (V-2103)	BK-GCS-PEDCO-120-PR-PI-0012 (1 of 1)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			
109	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		
110	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		
111	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		D03 Modified
112	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			D03 Modified
113	3	LIT-2161	Level Indicator Transmitter	Lean Glycol Storage Tank (TK-2102)	BK-GCS-PEDCO-120-PR-PI-0014 (1 of 1)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
114	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		
115	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		
116	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)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
117	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		
118	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		D03 Modified
119	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		D03 Modified
120	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)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D03 Modified
121	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)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D03 Modified
122	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)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D03 Modified
123	1	PIT-2211	Pressure Indicator Transmitter	Nitrogen Reciever Output	BK-GCS-PEDCO-120-PR-PI-0016	AH-IS-R	FIELD	ESD	±	±	±	±	±	±	±	±				X	X			D03 Modified
124	3	PIT-2222A	Pressure Indicator Transmitter	Closed Drain Drum Pump P-2202A Suction Line	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	AH-IS-R	FIELD	ESD	±	±	±	±	±	±	±	±				X	X			D03 Modified
125	3	PIT-2222B	Pressure Indicator Transmitter	Closed Drain Drum Pump P-2202B Suction Line	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	AH-IS-R	FIELD	ESD	±	±	±	±	±	±	±	±				X	X			D03 Modified
126	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		
127	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		
128	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		
129	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		
130	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		D03 Modified
131	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		
132	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		
133	1	LIT-2252A	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
134	1	LIT-2252B	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			
135	1	LIT-2252C	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض																				
																				احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک			
			NO LIST FOR ESD SYSTEMS																				
شماره پیمان:			پروژه	بنه کاری	صادرکننده	تجهیزات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 9 از 11												
053 - 073 – 9184			BK	GCS	PEDCO	120	IN	LI	0003	D03													
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		
136	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
137	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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
138	3	LIT-2253	Level Indicator Transmitter	LP Flare K.O. Drum (V-2201)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		
139	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	D03 Modified
140	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	
141	3	LIT-2272	Level Indicator Transmitter	Fuel Gas K.O. Drum (V-2205)	BK-GCS-PEDCO-120-PR-PI-0022 (1 of 1)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X		
142	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	
143	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	
144	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	D03 Modified
145	1	PIT-3201A	Pressure Indicator Transmitter	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		D03 Modified
146	1	PIT-3201B	Pressure Indicator Transmitter	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		D03 Modified
147	1	PIT-3201C	Pressure Indicator Transmitter	PIPELINE: From Dehydration (PK-2101) to PL-3201	BK-PPL-PEDCO-320-PR-PI-0001 (1 of 3)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X		D03 Modified
148	0	ESD R0-UPS-A	Trip Alarm (Request)	110V AC UPS, CH01 Fault Status	---	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*						X	D03 Modified
149	0	ESD R0-UPS-B	Trip Alarm (Request)	110V AC UPS, CH02 Fault Status	---	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*						X	D03 Modified
150	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	D03 Modified
151	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	D03 Modified
152	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	D03 Modified
153	0	ESD 0-EL2A	Isolation Command	110V AC UPS, CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (UPS CHARGER)	*	*	*	*	*	*	*	*						X	D03 Modified
154	0	ESD 0-EL2B	Isolation Command	110V AC UPS, CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (UPS CHARGER)	*	*	*	*	*	*	*	*						X	D03 Modified
155	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	D03 Modified
156	1	ESDR 1-DC	Trip Alarm (Request)	DC Charger Failure	---	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*						X	D03 Modified
157	1	ESDR 1-PCS	Trip Alarm (Request)	PCS Failure	---	DI-NIS-R	DCS	ESD	*	*	*	*	*	*	*	*						X	D03 Modified
158	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	D03 Modified
159	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	D03 Modified
160	0	ESD0-LAMP	Signal Lamp	Total Plant Shut Down With Automatic Depressurizing (ESD0)	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X	D03 Modified



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053 - 073 - 9184

I/O LIST FOR ESD SYSTEMS							
نسخه	سریال	نوع مدارک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
D03	0003	LI	IN	120	PEDCO	GCS	BK

شماره صفحه: 10 از 11

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		
161	1A	ESD1A-LAMP	Signal Lamp	Process Emergency Shut Down With Depressurizing (ESD1A)	—	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D03 Modified
162	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		D03 Modified
163	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		D03 Modified
164	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		D03 Modified
165	---	LAMP-ESD-INH	Signal Lamp	ESD INHIBIT LAMP	—	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D03 Modified
166	---	LAMP-ESD-RST	Signal Lamp	ESD RESET LAMP	—	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D03 Modified
167	1	ESD1-LAMP	Signal Lamp	Process Emergency Shut Down Without Depressurizing (ESD1)	—	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D03 Modified
168	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		D03 Modified
169	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		D03 Modified
170	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		D03 Modified
171	0	ESD0-PB	Emergency Stop Push Button	Total Plant Shut Down With Automatic Depressurizing (ESD0) P.B.	—	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D03 Modified
172	1A	ESD1A-PB	Emergency Stop Push Button	Process Emergency Shut Down With Depressurizing (ESD1A) P.B.	—	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D03 Modified
173	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			D03 Modified
174	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			D03 Modified
175	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			D03 Modified
176	---	ESD-INH-SEL	Selector Switch With key	ESD INHIBIT SELECTOR SWITCH	—	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D03 Modified
177	---	ESD-RST-PB	Momentary Yellow Push Button	Alarm and Causes Reset Push Button	—	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D03 Modified
178	1	ESD1-PB	Emergency Stop Push Button	Process Emergency Shut Down Without Depressurizing (ESD1) P.B.	—	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D03 Modified
179	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			D03 Modified



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



053 - 073 -- 9184

شماره پیمان:

I/O LIST FOR ESD SYSTEMS							
نسخه	سریال	نوع مدارک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
D03	0003	LI	IN	120	PEDCO	GCS	BK

شماره صفحه: 11 از 11

I/O List For ESD System

D03

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		
180	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			D03 Modified
181	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			D03 Modified
182	-	ESDI 0-EX	Trip Alarm (Request)	ESD 0 STATUS from Existing System	---	DI-NIS-R	EXISTING SYSTEM	ESD	*	*	*	*	*	*	*	*					X			D03 Modified
183	-	ESDI 0- NEW	Trip Command	ESD 0 to Existing System (Just Status)	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X		D03 Modified
	1	ESDI 1- NEW	Trip Command	ESD 1 Command to Existing System	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X	IF REQUIRED	D03 Deleted
	1A	ESDI 1A- NEW	Trip Command	ESD 1A Command to Existing System	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X	IF REQUIRED	D03 Deleted
186	0	ESD 0-EL3A	Isolation Command	24 V DC UPS-002-CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		D03 Modified
187	0	ESD 0-EL3B	Isolation Command	24 V DC UPS-002-CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		D03 Modified
188	0	ESD 0-EL4A	Isolation Command	110V DC Charger-001-CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		D03 Modified
189	0	ESD 0-EL4B	Isolation Command	110V DC Charger-001-CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X		D03 Modified