



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

D02

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

D02	OCT.2023	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
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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نسخه

BK

GCS

PEDCO

120

IN

LI

0003

D02

شماره صفحه: 2 از 11

REVISION RECORD SHEET

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I/O LIST FOR ESD SYSTEMS

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 11
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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

D02

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

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

BK

GCS

PEDCO

120

IN

LI

0003

D02

شماره صفحه: 4 از 11

ESD I/O SUMMERY COUNT

D02

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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053 - 073 - 9184

شماره پیمان:

نسخه	سریال	نوع مدارک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه
D02	0003	LI	IN	120	PEDCO	GCS	BK

شماره صفحه: 5 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.
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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X					X		D02 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-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)	AH-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)	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D02 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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			D02 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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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-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	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*				X	X			
16	1	PIT-2116	Pressure Indicator Transmitter	Slug Catcher Output	BK-GCS-PEDCO-120-PR-PI-0005	AH-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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		D02 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		D02 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-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		D02 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		D02 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-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		D02 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		D02 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-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		D02 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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			D02 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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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-IS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 Modified
30	2A	ESDR2A-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		D02 Modified
31	2	ESDR2-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		D02 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			D02 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			D02 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		D02 Modified



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شماره صفحه: 6 از 11

شماره پیمان:

053 - 073 - 9184

IO LIST FOR ESD SYSTEMS							
نسخه	سریال	نوع مدارک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
D02	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		
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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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		D02 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		D02 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			D02 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			D02 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		D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X			X	X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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		D02 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		D02 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			D02 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			D02 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		D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X				X			D02 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)	AHS-R	FIELD	ESD	*	*	*	*	*	*	*	*	X	X		X	X			D02 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																				
			NO 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	D02													
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
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		X	X		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 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		D02 Modified

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض																					
شماره پیمان: 053 - 073 – 9184			I/O LIST FOR ESD SYSTEMS							شماره صفحه: 8 از 11														
			پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدارک	سریال											نسخه				
			BK	GCS	PEDCO	120	IN	LI	0003	D02														
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		D02 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			D02 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		D02 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		D02 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			D02 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			D02 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			D02 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			D02 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			D02 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			D02 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		D02 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	صادر کننده	تجهیزات	رشته	نوع مدارک	سریال	نسخه	شماره صفحه: 9 از 11													
053 - 073 – 9184			BK	GCS	PEDCO	120	IN	LI	0003	D02														
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
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	D02 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	D02 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		D02 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		D02 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		D02 Modified
148	0	ESD R0-UPS-A	Trip Alarm (Request)	110V AC UPS, CH01 Fault Status	—	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*							X	D02 Modified
149	0	ESD R0-UPS-B	Trip Alarm (Request)	110V AC UPS, CH02 Fault Status	—	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*							X	D02 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	D02 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	D02 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	D02 Modified
153	0	ESD 0-EL2A	Isolation Command	110V AC UPS, CH01 Isolation Command	—	DO-NIS-R	ESD	ELECTRICAL (UPS CHARGER)	*	*	*	*	*	*	*	*							X	D02 Modified
154	0	ESD 0-EL2B	Isolation Command	110V AC UPS, CH02 Isolation Command	—	DO-NIS-R	ESD	ELECTRICAL (UPS CHARGER)	*	*	*	*	*	*	*	*							X	D02 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	D02 Modified
156	1	ESDR 1-DC	Trip Alarm (Request)	DC Charger Failure	—	DI-NIS-R	ELECTRICAL (UPS CHARGER)	ESD	*	*	*	*	*	*	*	*							X	D02 Modified
157	1	ESDR 1-PCS	Trip Alarm (Request)	PCS Failure	—	DI-NIS-R	DCS	ESD	*	*	*	*	*	*	*	*							X	D02 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	D02 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	D02 Modified
160	0	ESD0-LAMP	Signal Lamp	Total Plant Shut Down With Automatic Depressurizing (ESD0)	—	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*							X	D02 Modified



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



053 - 073 -- 9184

شماره پیمان:

پروژه
BK

بنه کاری
GCS

صادر کننده
PEDCO

تجهیزات
120

رشته
IN

نوع مدارک
LI

سریال
0003

نسخه
D02

شماره صفحه: 10 از 11

I/O List For ESD System

D02

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		D02 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		D02 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		D02 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		D02 Modified
165	---	LAMP-ESD-INH	Signal Lamp	ESD INHIBIT LAMP	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D02 Modified
166	---	LAMP-ESD-RST	Signal Lamp	ESD RESET LAMP	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D02 Modified
167	1	ESD1-LAMP	Signal Lamp	Process Emergency Shut Down Without Depressurizing (ESD1)	---	DO-NIS-R	ESD	ESD CONSOL	*	*	*	*	*	*	*	*						X		D02 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		D02 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		D02 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		D02 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			D02 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			D02 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			D02 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			D02 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			D02 Modified
176	---	ESD-INH-SEL	Selector Switch With key	ESD INHIBIT SELECTOR SWITCH	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D02 Modified
177	---	ESD-RST-PB	Momentary Yellow Push Button	Alarm and Causes Reset Push Button	---	DI-NIS-R	ESD CONSOL	ESD	*	*	*	*	*	*	*	*					X			D02 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			D02 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			D02 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
D02	0003	LI	IN	120	PEDCO	GCS	BK

شماره صفحه: 11 از 11

I/O List For ESD System

D02

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		
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		D02 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		D02 Modified
182	-	ESDI 0-EX	Trip Alarm (Request)	ESD 0 STATUS from Existing System	---	DI-NIS-R	EXISTING SYSTEM	ESD	*	*	*	*	*	*	*	*					X		D02 Modified
183	-	ESDI 0- NEW	Trip Command	ESD 0 to Existing System (Just Status)	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X	D02 Modified
	1	ESDI 1- NEW	Trip Command	ESD 1 Command to Existing System	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X	IF REQUIRED D02 Deleted
	1A	ESDI 1A- NEW	Trip Command	ESD 1A Command to Existing System	---	DO-NIS-R	ESD	EXISTING SYSTEM	*	*	*	*	*	*	*	*						X	IF REQUIRED D02 Deleted
186	0	ESD 0-EL3A	Isolation Command	24 V DC UPS-002-CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X	D02 Modified
187	0	ESD 0-EL3B	Isolation Command	24 V DC UPS-002-CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X	D02 Modified
188	0	ESD 0-EL4A	Isolation Command	110V DC Charger-001-CH01 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X	D02 Modified
189	0	ESD 0-EL4B	Isolation Command	110V DC Charger-001-CH02 Isolation Command	---	DO-NIS-R	ESD	ELECTRICAL (CHARGER)	*	*	*	*	*	*	*	*						X	D02 Modified