



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض ایستگاه تقویت فشار گاز
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد 03_BK-HD-GCS-CO-0008)



شماره صفحه: 1 از 14	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه	شماره پیمان:
	V02	0001	LI	IN	120	HY	GCS	BK	۹۱۸۴ - ۰۷۳ - ۰۵۳

طرح نگهداشت و افزایش تولید ۲۷ مخزن

CAUSE & EFFECT CHARTS LIST

نگهداشت و افزایش تولید میدان نفتی بینک

V02	MAY.2024	IFR	Havayar Co.	M. Fakharian	S. Faramarzpour	
V01	SEP.2023	IFR	Havayar Co.	M. Fakharian	S. Faramarzpour	
V00	JUN.2023	IFR	Havayar Co.	M. Fakharian	A. M. Mohseni	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

CLIENT Doc. Number:

status:

IFA: Issued For Approval

IFR: Issued For Review

IFI: Issued For Information

AFC: Approved For Construction

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض ایستگاه تقویت فشار گاز خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)							 HAVAYAR INDUSTRIAL GROUP	
	CAUSE & EFFECT CHARTS LIST								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 2 از 14
۰۵۳ - ۰۷۳ - ۹۱۸۶	BK	GCS	HY	120	IN	LI	0001	V02	

REVISION RECORD SHEET

Page	V00	V01	V02	V03	V04	V05	V06	Page	V00	V01	V02	V03	V04	V05	V06
1	X	X	X					40							
2	X	X	X					41							
3	X	X	X					42							
4	X	X	X					43							
5		X	X					44							
6			X					45							
7			X					46							
8			X					47							
9			X					48							
10			X					49							
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 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض/بسته ایستگاه تقویت فشار گاز خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)							 HAVAYAR INDUSTRIAL GROUP																						
											CAUSE &EFFECT CHARTS LIST																				
		شماره پیمان:		پروژه	بسته	صادر کننده	تسهیلات	رشته			نوع مدرک	سریال	نسخه	شماره صفحه: 4 از 14																	
053 - 073 - 9184		BK	GCS	HY	120	IN	LI	0001	V02																						
ALARM SIGNALS OF COMPRESSOR A										TITLE		SOUR GAS RECIPROCATING COMPRESSOR																			
CAUSE EFFECTS										EQUIP.		C2101 / C-2102																			
										EFFECT		COMMON ALARM LAMP LCP																			
TAG NO.		XT-2230A																													
TITLE										EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	LCP														
SOUR GAS RECIPROCATING COMPRESSOR										C2101 / C-2102										PDT-2122 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	1ST STAGE SUCTION STRAINER DIFFRENTIAL PRESSURE HIGH		UCP 2101A	E					
																				PT-2123 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	1ST STAGE SUCTION PRESSURE HIGH		UCP 2101A	E					
																				TT-2191 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	1ST STAGE DISCHARGE TEMPERATURE HIGH		UCP 2101A	E					
																				PT-2124 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	1ST STAGE DISCHARGE PRESSURE HIGH		UCP 2101A	E					
																				PT-2132 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	2ND STAGE SUCTION PRESSURE LOW		UCP 2101A	E					
																				TT-2194 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	2ND STAGE DISCHARGE TEMPERATURE HIGH		UCP 2101A	E					
																				PT-2133 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	2ND STAGE DISCHARGE PRESSURE HIGH		UCP 2101A	E					
																				PT-2200 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUBRICATOR PRESSURE LOW		UCP 2101A	E					
																				PDT-2132 A	BK-GCS-HY-120-IN-DW-0006	1A of 10	2ND STAGE SUCTION STRAINER DIFFRENTIAL PRESSURE HIGH		UCP 2101A	E					
																				LT-2200 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	CRANK CASE LUBE OIL LEVEL LOW		UCP 2101A	E					
																				PDT-2204 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUB OIL FILTER DIFFERENTIAL PRESSURE HIGH		UCP 2101A	E					
																				PT-2204 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUB OIL PRESSURE LOW		UCP 2101A	E					
																				TT-2204 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUB OIL TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2204 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUB OIL TEMPERATURE LOW		UCP 2101A	E					
																				PT-2210 A	BK-GCS-HY-120-IN-DW-0006	4A of 10	N2 STREAM PRESSURE LOW		UCP 2101A	E					
																				PT-2211 A	BK-GCS-HY-120-IN-DW-0006	4A of 10	N2 STREAM PRESSURE LOW		UCP 2101A	E					
																				PT-2212 A	BK-GCS-HY-120-IN-DW-0006	4A of 10	N2 PURGE PRESSURE HIGH		UCP 2101A	E					
																				LT-2213 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER RESERVOIR LEVEL LOW		UCP 2101A	E					
																				PT-2220 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER PRESSURE LOW		UCP 2101A	E					
																				PT-2220 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER PRESSURE HIGH		UCP 2101A	E					
																				TT-2221 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER TEMPERATURE LOW		UCP 2101A	E					
																				TT-2221 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2214 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	MAIN MOTOR NDE BEARING TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2215 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	MAIN MOTOR DE BEARING TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2216 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	BEARING TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2217 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	PACKING TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2218 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	BEARING TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2219 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	PACKING TEMPERATURE HIGH		UCP 2101A	E					
																				TT-2220 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	MID BEARING TEMPERATURE HIGH		UCP 2101A	E					
																				ZT-2200 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	1ST STAGE ROD DROP HIGH		UCP 2101A	E					
																				ZT-2201 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	2ND STAGE ROD DROP HIGH		UCP 2101A	E					
																				VT-2200 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	FRAME VIBRATION HIGH		UCP 2101A	E					
																				VT-2201 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	FRAME VIBRATION HIGH		UCP 2101A	E					
																				VT-2202 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	FRAME VIBRATION HIGH		UCP 2101A	E					
																				TE-2222 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	MAIN MOTOR WINDING T TEMPERATURE HIGH		UCP 2101A	E					
																				TE-2225 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	MAIN MOTOR WINDING S TEMPERATURE HIGH		UCP 2101A	E					
																				TE-2228 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	MAIN MOTOR WINDING R TEMPERATURE HIGH		UCP 2101A	E					
																				XT-2200 A	BK-GCS-HY-120-IN-DW-0006	7A of 10	KEY PHASOR ROTATION SPEED HIGH		UCP 2101A	E					
General Notes:																															
LEGEND:																															
LCP: LOCAL CONTROL PANEL																															
UCP: UNIT CONTROL PANEL																															
MCC: MOTOR CONTROL CENTER																															
E: ENERGIZE																															
DE: DE-ENERGIZE																															



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خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد BK-HD-GCS-CO-0008_03)



HAVAYAR
INDUSTRIAL GROUP

CAUSE & EFFECT CHARTS LIST

شماره پیمان:
053 - 073 - 9184

نسخه	سریال	نوع	رشته	تسهیلات	صادر	بسته	پروژه
V02	0001	LI	IN	120	HY	GCS	BK

شماره صفحه: 5 از 14

ALARM SIGNALS OF COMPRESSOR A

EFFECTS

CAUSE

EFFECT

COMPRESSOR START PERMISSIVE

COMPRESSOR START PERMISSION LAMP

TAG NO.

XSP-2230 A

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	UCP	LCP
SOUR GAS RECIPROCATING COMPRESSOR	C2101 / C-2102		BK-GCS-HY-120-IN-DW-0006	3A,4A,5A,6A,9A of 10	NO COMMON ALARM + NO COMMON SHUTDOWN + AXU. OIL PUMP MOTOR RUN FEED BACK + LUBE OIL PRESSURE + LUBE OIL TEMPERATURE + COOLING WATER PRESSURE + COOLING WATER TEMPERATURE + BARING DEVICE UNLOCK FEED BACK + NO MAIN MOTOR FAULT + PRESSURE PACKING N2 PRESSURE + ROD PACKING N2 PRESSURE + LUBE OIL LEVEL + CAPACITY SWITCH ON 0% LOAD + CLIENT PERMISSIVE TO START (NOTE 1)		UCP 2101 A	E	E

General Notes:

LEGEND:
LCP: LOCAL CONTROL PANEL
UCP: UNIT CONTROL PANEL
MCC: MOTOR CONTROL CENTER
E: ENERGIZE
DE: DE-ENERGIZE

NOTE 1: A REQUEST PERMISSION SIGNAL (HSS-2126A) FROM UCP WILL BE SENT TO DCS, THEN START PERMISSION SIGNAL (HSS-2125A) FROM DCS WILL BE SENT TO DCS.



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سطح الارض و ابنیه تحت الارض / بسته ایستگاه تقویت فشار گاز
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد BK-HD-GCS-CO-0008_03)



HAVAYAR
INDUSTRIAL GROUP

CAUSE & EFFECT CHARTS LIST

شماره پیمان:
053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
V02	0001	LI	IN	120	HY	GCS	BK

شماره صفحه: 6 از 14

CONTROL SIGNALS OF COMPRESSOR A

TITLE SOUR GAS RECIPROCATING COMPRESSOR

EQUIP. C-2101 / C-2102

EFFECTS

CAUSE

EFFECT

TAB NO.

AUX OIL PUMP START	AUX OIL PUMP STOP	CRANK CASE HEATER ON	CRANK CASE HEATER OFF	AUX WATER PUMP START	AUX WATER PUMP STOP	MAIN WATER PUMP STOP	WATER RESERVOIR HEATER START	WATER RESERVOIR HEATER STOP	INSTRUMENT AIR	INSTRUMENT AIR	INSTRUMENT AIR	INSTRUMENT AIR	INSTRUMENT AIR
XSS-2202A (Note 1)	XSP-2202A	XSS-2203A	XSP-2203A	XSS-2221A	XSP-2221A	XSP-2222A	XSS-2223A	XSP-2223A	PSOV-2201A	PSOV-2202A	PSOV-2203A	PSOV-2204A	PSOV-2205A

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	UCP	UCP	UCP	UCP	UCP
		TT-2203 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	CRANK CASE LUB OIL TEMPERATURE HIGH	I-30A	UCP 2101A				E											
		TT-2203 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	CRANK CASE LUB OIL TEMPERATURE LOW	I-30A	UCP 2101A			E												
		PT-2204 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUB OIL PRESSURE HIGH	I-20A	UCP 2101A		E													
		PT-2204 A	BK-GCS-HY-120-IN-DW-0006	3A of 10	LUB OIL PRESSURE LOW	I-20A	UCP 2101A	E														
		LT-2213 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER RESERVOIR LEVEL LOW LOW	I-22A	UCP 2101A					E	E									
		TT-2213 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER RESERVOIR TEMPERATURE LOW	I-26A	UCP 2101A							E								
		TT-2213 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER RESERVOIR TEMPERATURE HIGH	I-26A	UCP 2101A								E							
		PT-2220 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER LINE PRESSURE HIGH	I-25A	UCP 2101A					E										
		PT-2220 A	BK-GCS-HY-120-IN-DW-0006	5A of 10	COOLING WATER LINE PRESSURE LOW	I-25A	UCP 2101A				E											
		HSL-2242 A1	BK-GCS-HY-120-IN-DW-0006	3A of 10	LOAD 0% SELECTOR SWITCH ON UCP	I-40A	UCP 2101A											DE	DE	DE	DE	DE
		HSL-2242 A2	BK-GCS-HY-120-IN-DW-0006	3A of 10	LOAD 25% SELECTOR SWITCH ON UCP	I-40A	UCP 2101A											E	DE	DE	E	E
		HSL-2242 A3	BK-GCS-HY-120-IN-DW-0006	3A of 10	LOAD 50% SELECTOR SWITCH ON UCP (NOTE 1)	I-40A	UCP 2101A											DE	E	DE	E	DE
		HSL-2242 A4	BK-GCS-HY-120-IN-DW-0006	3A of 10	LOAD 75% SELECTOR SWITCH ON UCP	I-40A	UCP 2101A											E	E	E	E	E
		HSL-2242 A5	BK-GCS-HY-120-IN-DW-0006	3A of 10	LOAD 100% SELECTOR SWITCH ON UCP	I-40A	UCP 2101A											E	E	E	E	DE

General Notes:

LEGEND:
LCP: LOCAL CONTROL PANEL
UCP: UNIT CONTROL PANEL
MCC: MOTOR CONTROL CENTER
E: ENERGIZE
DE: DE-ENERGIZE

NOTE 1: THE CRANK-END (PSOV-2201 A / 2204 A) AND HEAD-END (PSOV-2202 A / 2203 A) SIDES WILL BE CHANGED ALTERNATELY AS MENTIONED IN CONTROL PHILOSOPHY.



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خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد BK-HD-GCS-CO-0008_03)



CAUSE &EFFECT CHARTS LIST

شماره پیمان:

053 - 073 - 9184

پروژه

بسته کاری

صادر کننده

تهیهات

رشته

نوع مدرک

سریال

نسخه

BK

GCS

HY

120

IN

LI

0001

V02

شماره صفحه: 7 از 14

START AND SHUTDOWN OF COMPRESSOR B

EFFECTS

CAUSE

TITLE

EQUIP.

EFFECT

TAG NO.

SOUR GAS RECIPROCATING COMPRESSOR

C-2101 / C-2102

FEED BACK ESD

INSTRUMENT AIR

INSTRUMENT AIR

INSTRUMENT AIR

INSTRUMENT AIR

INSTRUMENT AIR

INSTRUMENT AIR

SPILL BACK SV

MAIN MOTOR START

MAIN MOTOR STOP

AUX OIL PUMP START

AUX OIL PUMP STOP

CRANK CASE HEATER ON

CRANK CASE HEATER OFF

AUX WATER PUMP STOP

MAIN WATER PUMP START

MAIN WATER PUMP STOP

WATER RESERVOIR HEATER START

WATER RESERVOIR HEATER STOP

Lubricator pump START

Lubricator pump STOP

COMMON SHUT DOWN LAMP LCP

LUBRICATOR HEATER START

LUBRICATOR HEATER STOP

LUBE OIL COOLER FAN 1 START

LUBE OIL COOLER FAN 2 START

LUBE OIL COOLER FAN 1 STOP

LUBE OIL COOLER FAN 2 STOP

COOLING WATER COOLER FAN START

COOLING WATER COOLER FAN STOP

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	UCP	UCP	UCP	UCP	UCP	UCP	UCP	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC
ESD-01A	BK-GCS-HY-120-IN-DW-0006	9B of 10	CLIENT ESD SIGNAL	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
ESD-02	BK-GCS-HY-120-IN-DW-0006	9B of 10	CLIENT ESD SIGNAL	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
ESD-02A	BK-GCS-HY-120-IN-DW-0006	9B of 10	CLIENT ESD SIGNAL	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
ESD-2231 B	BK-GCS-HY-120-IN-DW-0006	9B of 10	EMERGENCY SHUTDOWN PUSH BUTTON ON UCP	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
ESD-2230 B	BK-GCS-HY-120-IN-DW-0006	8B of 10	EMERGENCY SHUTDOWN PUSH BUTTON ON LCP	I-60B	LCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TS-2191 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	1ST STAGE DISCHARGE TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TS-2194 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	2ND STAGE DISCHARGE TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
PS-2133 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	2ND STAGE DISCHARGE LINE PRESSURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
PS-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL PRESSURE LOW LOW	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
PS-2220 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER LINE PRESSURE LOW LOW	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2221 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
VT-2200 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	COMPRESSOR FRAM VIBRATION HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
VT-2201 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	COMPRESSOR FRAM VIBRATION HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
VT-2202 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	COMPRESSOR FRAM VIBRATION HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2216 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	BEARING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2217 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	PACKING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2218 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	BEARING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2220 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MID BEARING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2219 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	PACKING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2214 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR NDE BEARING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2215 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR DE BEARING TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2222 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR WINDING T TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2225 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR WINDING S TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
TT-2228 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR WINDING R TEMPERATURE HIGH HIGH	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
HST-2243 B	BK-GCS-HY-120-IN-DW-0006	9B of 10	COMPRESSOR START P.B ON UCP		UCP 2101B										E (Notes)		E		E				E												
HSP-2243 B	BK-GCS-HY-120-IN-DW-0006	9B of 10	COMPRESSOR STOP P.B ON UCP	I-60B	UCP 2101B	E	DE	DE	DE	DE	DE	DE	DE	DE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E

General Notes:

LEGEND:
LCP: LOCAL CONTROL PANEL
UCP: UNIT CONTROL PANEL
MCC: MOTOR CONTROL CENTER
E: ENERGIZE
DE: DE-ENERGIZE

NOTE 1: THE START PERMISSIVE REQUEST FROM UCP TO DCS, START PERMISSION OF UCP, AND START SEQUENCE (AUTOMATICALLY) SHALL BE CONSIDERED WHEN THE COMPRESSOR START IS FROM UCP.
NOTE 2: DURING THE COMPRESSOR STOP, WILL BE STOPPED WITH DELAY TIME.



شماره پیمان: 053 - 073 - 9184	پروژه	بسته	صادر کننده	تجهیزات	رشته	نوع مدرک	سرمال	نسخه	شماره صفحه: 8 از 14
	BK	GCS	HY	120	IN	LI	0001	V02	

ALARM SIGNALS OF COMPRESSOR B							TITLE		SOUR GAS RECIPROCATING COMPRESSOR					
EFFECTS							EQUIP.		C2101 / C-2102					
							EFFECT		COMMON ALARM LAMP LCP					
CAUSE							TAG NO.		XF-2220B					
TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	LCP						
SOUR GAS RECIPROCATING COMPRESSOR	C2101 / C-2102	PDT-2122 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	1ST STAGE SUCTION STRAINER DIFFERENTIAL PRESSURE HIGH		UCP 2101B	E						
		PT-2123 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	1ST STAGE SUCTION PRESSURE HIGH		UCP 2101B	E						
		TT-2191 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	1ST STAGE DISCHARGE TEMPERATURE HIGH		UCP 2101B	E						
		PT-2124 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	1ST STAGE DISCHARGE PRESSURE HIGH		UCP 2101B	E						
		PT-2132 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	2ND STAGE SUCTION PRESSURE LOW		UCP 2101B	E						
		TT-2194 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	2ND STAGE DISCHARGE TEMPERATURE HIGH		UCP 2101B	E						
		PT-2133 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	2ND STAGE DISCHARGE PRESSURE HIGH		UCP 2101B	E						
		PT-2200 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUBRICATOR PRESSURE LOW		UCP 2101B	E						
		PDT-2132 B	BK-GCS-HY-120-IN-DW-0006	1B of 10	2ND STAGE SUCTION STRAINER DIFFERENTIAL PRESSURE HIGH		UCP 2101B	E						
		LT-2200 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	CRANK CASE LUBE OIL LEVEL LOW		UCP 2101B	E						
		PDT-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL FILTER DIFFERENTIAL PRESSURE HIGH		UCP 2101B	E						
		PT-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL PRESSURE LOW		UCP 2101B	E						
		TT-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL TEMPERATURE HIGH		UCP 2101B	E						
		TT-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL TEMPERATURE LOW		UCP 2101B	E						
		PT-2210 B	BK-GCS-HY-120-IN-DW-0006	4B of 10	N2 STREAM PRESSURE LOW		UCP 2101B	E						
		PT-2211 B	BK-GCS-HY-120-IN-DW-0006	4B of 10	N2 STREAM PRESSURE LOW		UCP 2101B	E						
		PT-2212 B	BK-GCS-HY-120-IN-DW-0006	4B of 10	N2 PURGE PRESSURE HIGH		UCP 2101B	E						
		LT-2213 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER RESERVOIR LEVEL LOW		UCP 2101B	E						
		PT-2220 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER PRESSURE LOW		UCP 2101B	E						
		PT-2220 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER PRESSURE HIGH		UCP 2101B	E						
		TT-2221 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER TEMPERATURE LOW		UCP 2101B	E						
		TT-2221 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER TEMPERATURE HIGH		UCP 2101B	E						
		TT-2214 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR NDE BEARING TEMPERATURE HIGH		UCP 2101B	E						
		TT-2215 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR DE BEARING TEMPERATURE HIGH		UCP 2101B	E						
		TT-2216 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	BEARING TEMPERATURE HIGH		UCP 2101B	E						
		TT-2217 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	PACKING TEMPERATURE HIGH		UCP 2101B	E						
		TT-2218 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	BEARING TEMPERATURE HIGH		UCP 2101B	E						
		TT-2219 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	PACKING TEMPERATURE HIGH		UCP 2101B	E						
		TT-2220 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MID BEARING TEMPERATURE HIGH		UCP 2101B	E						
		ZT-2200 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	1ST STAGE ROD DROP HIGH		UCP 2101B	E						
		ZT-2201 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	2ND STAGE ROD DROP HIGH		UCP 2101B	E						
		VT-2200 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	FRAME VIBRATION HIGH		UCP 2101B	E						
		VT-2201 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	FRAME VIBRATION HIGH		UCP 2101B	E						
		VT-2202 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	FRAME VIBRATION HIGH		UCP 2101B	E						
		TE-2222 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR WINDING T TEMPERATURE HIGH		UCP 2101B	E						
		TE-2225 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR WINDING S TEMPERATURE HIGH		UCP 2101B	E						
		TE-2228 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	MAIN MOTOR WINDING R TEMPERATURE HIGH		UCP 2101B	E						
		XT-2200 B	BK-GCS-HY-120-IN-DW-0006	7B of 10	KEY PHASOR ROTATION SPEED HIGH		UCP 2101B	E						

LEGEND:
LCP: LOCAL CONTROL PANEL
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MCC: MOTOR CONTROL CENTER
E: ENERGIZE
DE: DE-ENERGIZE



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض / بسته ایستگاه تقویت فشار گاز
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد BK-HD-GCS-CO-0008_03)



HAVAYAR
INDUSTRIAL GROUP

CAUSE & EFFECT CHARTS LIST

شماره پیمان:
053 - 073 - 9184

نسخه	سریال	نوع	رشته	تسهیلات	صادر	بسته	پروژه
V02	0001	LI	IN	120	HY	GCS	BK

شماره صفحه: 9 از 14

ALARM SIGNALS OF COMPRESSOR B

EFFECTS

CAUSE

EFFECT

COMPRESSOR START PERMISSIVE

COMPRESSOR START PERMISSION LAMP

TAG NO.

XSP-2230 B

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	UCP	LCP
SOUR GAS RECIPROCATING COMPRESSOR	C2101 / C-2102		BK-GCS-HY-120-IN-DW-0006	3B,4B,5B,6B,9B of 10	NO COMMON ALARM + NO COMMON SHUTDOWN + AXU. OIL PUMP MOTOR RUN FEED BACK + LUBE OIL PRESSURE + LUBE OIL TEMPERATURE + COOLING WATER PRESSURE + COOLING WATER TEMPERATURE + BARING DEVICE UNLOCK FEED BACK + NO MAIN MOTOR FAULT + PRESSURE PACKING N2 PRESSURE + ROD PACKING N2 PRESSURE + LUBE OIL LEVEL + CAPACITY SWITCH ON 0% LOAD + CLIENT PERMISSIVE TO START (NOTE 1)		UCP 2101 B	E	E

General Notes:

LEGEND:
LCP: LOCAL CONTROL PANEL
UCP: UNIT CONTROL PANEL
MCC: MOTOR CONTROL CENTER
E: ENERGIZE
DE: DE-ENERGIZE

NOTE 1: A REQUEST PERMISSION SIGNAL (HSS-2126B) FROM UCP WILL BE SENT TO DCS, THEN START PERMISSION SIGNAL (HSS-2125B) FROM DCS WILL BE SENT TO DCS.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض/سته ایستگاه تقویت فشار گاز
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد 03 BK-HD-GCS-CO-0008)



CAUSE & EFFECT CHARTS LIST

شماره پیمان:
053 - 073 - 9184

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صادر کنندہ

تصانیف

و شته

عمر مدوک

سے قال

فسخه

شماره صفحه: 10 از 14

BK

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120

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0001

V02

CONTROL SIGNALS OF COMPRESSOR B

TITLE	SOUR GAS RECIPROCATING COMPRESSOR
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EFFECTS

CAUSE

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	MCC	UCP 2101B	UCP 2101B	UCP 2101B	UCP 2101B	UCP 2101B		
		TT-2203 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	CRANK CASE LUB OIL TEMPERATURE HIGH	I-30B	UCP 2101B				E													
		TT-2203 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	CRANK CASE LUB OIL TEMPERATURE LOW	I-30B	UCP 2101B			E														
		PT-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL PRESSURE HIGH	I-20B	UCP 2101B		E															
		PT-2204 B	BK-GCS-HY-120-IN-DW-0006	3B of 10	LUB OIL PRESSURE LOW	I-20B	UCP 2101B	E																
		LT-2213 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER RESERVOIR LEVEL LOW LOW	I-22B	UCP 2101B					E	E											
		TT-2213 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER RESERVOIR TEMPERATURE LOW	I-26B	UCP 2101B									E								
		TT-2213 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER RESERVOIR TEMPERATURE HIGH	I-26B	UCP 2101B										E							
		PT-2220 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER LINE PRESSURE HIGH	I-25B	UCP 2101B					E												
		PT-2220 B	BK-GCS-HY-120-IN-DW-0006	5B of 10	COOLING WATER LINE PRESSURE LOW	I-25B	UCP 2101B					E												
		HSL-2242 B1	BK-GCS-HY-120-IN-DW-0006	3B of 10	LOAD 0% SELECTOR SWITCH ON UCP	I-40B	UCP 2101B												DE	DE	DE	DE	DE	
		HSL-2242 B2	BK-GCS-HY-120-IN-DW-0006	3B of 10	LOAD 25% SELECTOR SWITCH ON UCP	I-40B	UCP 2101B												E	DE	DE	E	E	
		HSL-2242 B3	BK-GCS-HY-120-IN-DW-0006	3B of 10	LOAD 50% SELECTOR SWITCH ON UCP (NOTE 1)	I-40B	UCP 2101B													DE	E	DE	E	DE
		HSL-2242 B4	BK-GCS-HY-120-IN-DW-0006	3B of 10	LOAD 75% SELECTOR SWITCH ON UCP	I-40B	UCP 2101B												E	E	E	E	E	
		HSL-2242 B5	BK-GCS-HY-120-IN-DW-0006	3B of 10	LOAD 100% SELECTOR SWITCH ON UCP	I-40B	UCP 2101B												E	E	E	E	DE	

General Notes:

LEGEND:
LCP: LOCAL CONTROL PANEL
UCP: UNIT CONTROL PANEL
MCC: MOTOR CONTROL CENTER
E: ENERGIZE
DE: DE-ENERGIZE

NOTE 1: THE CRANK-END (PSOV-2201 B / 2204 B) AND HEAD-END (PSOV-2202 B / 2203 B) SIDES WILL BE CHANGED ALTERNATELY AS MENTIONED IN CONTROL PHILOSOPHY.

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض/ایستگاه تقویت فشار گاز خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)							 HAVAYAR INDUSTRIAL GROUP	
	CAUSE & EFFECT CHARTS LIST								
	شماره پیمان: 053 - 073 - 9184	پروژه	بسته	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	HY	120	IN	LI	0001	V02	

ALARM SIGNALS OF COMPRESSOR C							TITLE	SOUR GAS RECIPROCATING COMPRESSOR							
EFFECTS							EQUIP.	C2101 / C-2102							
							EFFECT	COMMON ALARM LAMP LCP							
CAUSE							TAG NO.	XF-2230C							
TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	LCP							
SOUR GAS RECIPROCATING COMPRESSOR	C2101 / C-2102	PDT-2122 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	1ST STAGE SUCTION STRAINER DIFFRENTIAL PRESSURE HIGH		UCP 2101C	E							
		PT-2123 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	1ST STAGE SUCTION PRESSURE HIGH		UCP 2101C	E							
		TT-2191 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	1ST STAGE DISCHARGE TEMPERATURE HIGH		UCP 2101C	E							
		PT-2124 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	1ST STAGE DISCHARGE PRESSURE HIGH		UCP 2101C	E							
		PT-2132 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	2ND STAGE SUCTION PRESSURE LOW		UCP 2101C	E							
		TT-2194 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	2ND STAGE DISCHARGE TEMPERATURE HIGH		UCP 2101C	E							
		PT-2133 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	2ND STAGE DISCHARGE PRESSURE HIGH		UCP 2101C	E							
		PT-2200 C	BK-GCS-HY-120-IN-DW-0006	3C of 10	LUBRICATOR PRESSURE LOW		UCP 2101C	E							
		PDT-2132 C	BK-GCS-HY-120-IN-DW-0006	1C of 10	2ND STAGE SUCTION STRAINER DIFFRENTIAL PRESSURE HIGH		UCP 2101C	E							
		LT-2200 C	BK-GCS-HY-120-IN-DW-0006	3C of 10	CRANK CASE LUBE OIL LEVEL LOW		UCP 2101C	E							
		PDT-2204 C	BK-GCS-HY-120-IN-DW-0006	3C of 10	LUB OIL FILTER DIFFERENTIAL PRESSURE HIGH		UCP 2101C	E							
		PT-2204 C	BK-GCS-HY-120-IN-DW-0006	3C of 10	LUB OIL PRESSURE LOW		UCP 2101G	E							
		TT-2204 C	BK-GCS-HY-120-IN-DW-0006	3C of 10	LUB OIL TEMPERATURE HIGH		UCP 2101G	E							
		TT-2204 C	BK-GCS-HY-120-IN-DW-0006	3C of 10	LUB OIL TEMPERATURE LOW		UCP 2101G	E							
		PT-2210 C	BK-GCS-HY-120-IN-DW-0006	4C of 10	N2 STREAM PRESSURE LOW		UCP 2101G	E							
		PT-2211 C	BK-GCS-HY-120-IN-DW-0006	4C of 10	N2 STREAM PRESSURE LOW		UCP 2101G	E							
		PT-2212 C	BK-GCS-HY-120-IN-DW-0006	4C of 10	N2 PURGE PRESSURE HIGH		UCP 2101G	E							
		LT-2213 C	BK-GCS-HY-120-IN-DW-0006	5C of 10	COOLING WATER RESERVOIR LEVEL LOW		UCP 2101G	E							
		PT-2220 C	BK-GCS-HY-120-IN-DW-0006	5C of 10	COOLING WATER PRESSURE LOW		UCP 2101G	E							
		PT-2220 C	BK-GCS-HY-120-IN-DW-0006	5C of 10	COOLING WATER PRESSURE HIGH		UCP 2101G	E							
		TT-2221 C	BK-GCS-HY-120-IN-DW-0006	5C of 10	COOLING WATER TEMPERATURE LOW		UCP 2101G	E							
		TT-2221 C	BK-GCS-HY-120-IN-DW-0006	5C of 10	COOLING WATER TEMPERATURE HIGH		UCP 2101G	E							
		TT-2214 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	MAIN MOTOR NDE BEARING TEMPERATURE HIGH		UCP 2101G	E							
		TT-2215 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	MAIN MOTOR DE BEARING TEMPERATURE HIGH		UCP 2101G	E							
		TT-2216 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	BEARING TEMPERATURE HIGH		UCP 2101G	E							
		TT-2217 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	PACKING TEMPERATURE HIGH		UCP 2101G	E							
		TT-2218 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	BEARING TEMPERATURE HIGH		UCP 2101G	E							
		TT-2219 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	PACKING TEMPERATURE HIGH		UCP 2101G	E							
		TT-2220 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	MID BEARING TEMPERATURE HIGH		UCP 2101G	E							
		ZT-2200 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	1ST STAGE ROD DROP HIGH		UCP 2101G	E							
		ZT-2201 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	2ND STAGE ROD DROP HIGH		UCP 2101G	E							
		VT-2200 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	FRAME VIBRATION HIGH		UCP 2101G	E							
		VT-2201 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	FRAME VIBRATION HIGH		UCP 2101G	E							
		VT-2202 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	FRAME VIBRATION HIGH		UCP 2101G	E							
		TE-2222 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	MAIN MOTOR WINDING T TEMPERATURE HIGH		UCP 2101G	E							
		TE-2225 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	MAIN MOTOR WINDING S TEMPERATURE HIGH		UCP 2101G	E							
		TE-2228 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	MAIN MOTOR WINDING R TEMPERATURE HIGH		UCP 2101G	E							
		XT-2200 C	BK-GCS-HY-120-IN-DW-0006	7C of 10	KEY PHASOR ROTATION SPEED HIGH		UCP 2101G	E							
General Notes:															
LEGEND:															
LCP: LOCAL CONTROL PANEL															
UCP: UNIT CONTROL PANEL															
MCC: MOTOR CONTROL CENTER															
E: ENERGIZE															
DE: DE-ENERGIZE															



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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض / بسته ایستگاه تقویت فشار گاز
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد BK-HD-GCS-CO-0008_03)



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CAUSE & EFFECT CHARTS LIST

شماره پیمان:
053 - 073 - 9184

نسخه	سریال	نوع	رشته	تسهیلات	صادر	بسته	پروژه
V02	0001	LI	IN	120	HY	GCS	BK

شماره صفحه: 13 از 14

ALARM SIGNALS OF COMPRESSOR C

EFFECTS

CAUSE

EFFECT

COMPRESSOR START PERMISSIVE

COMPRESSOR START PERMISSION LAMP

TAG NO.

XSP-2230 C

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	UCP	LCP
SOUR GAS RECIPROCATING COMPRESSOR	C2101 / C-2102		BK-GCS-HY-120-IN-DW-0006	3C,4C,5C,6C,9C of 10	NO COMMON ALARM + NO COMMON SHUTDOWN + AXU. OIL PUMP MOTOR RUN FEED BACK + LUBE OIL PRESSURE + LUBE OIL TEMPERATURE + COOLING WATER PRESSURE + COOLING WATER TEMPERATURE + BARING DEVICE UNLOCK FEED BACK + NO MAIN MOTOR FAULT + PRESSURE PACKING N2 PRESSURE + ROD PACKING N2 PRESSURE + LUBE OIL LEVEL + CAPACITY SWITCH ON 0% LOAD + CLIENT PERMISSIVE TO START (NOTE 1)		UCP 2101 C	E	E

General Notes:

LEGEND:
LCP: LOCAL CONTROL PANEL
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NOTE 1: A REQUEST PERMISSION SIGNAL (HSS-2126C) FROM UCP WILL BE SENT TO DCS, THEN START PERMISSION SIGNAL (HSS-2125C) FROM DCS WILL BE SENT TO DCS.



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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
V02	0001	LI	IN	120	HY	GCS	BK

شماره صفحه: 14 از 14

CONTROL SIGNALS OF COMPRESSOR C

TITLE SOUR GAS RECIPROCATING COMPRESSOR

EQUIP. C-2101 / C-2102

EFFECTS

CAUSE

TITLE	EQUIP.	TAG	Logic Diagram Document No.	P&ID Page No.	DESCRIPTION	INTERLOCK NO.	LOCATION	EFFECT										EQUIP.				
								TAB NO.	XSS-2202C (Note 1)	XSP-2202C	XSS-2203C	XSP-2203C	XSS-2221C	XSP-2221C	XSP-2222C	XSS-2223C	XSP-2223C	PSOV-2201C	PSOV-2202C	PSOV-2203C	PSOV-2204C	PSOV-2205C
TT-2203 C		BK-GCS-HY-120-IN-DW-0006		3C of 10	CRANK CASE LUB OIL TEMPERATURE HIGH	I-30C	UCP 2101G						E									
TT-2203 C		BK-GCS-HY-120-IN-DW-0006		3C of 10	CRANK CASE LUB OIL TEMPERATURE LOW	I-30C	UCP 2101G					E										
PT-2204 C		BK-GCS-HY-120-IN-DW-0006		3C of 10	LUB OIL PRESSURE HIGH	I-20C	UCP 2101G			E												
PT-2204 C		BK-GCS-HY-120-IN-DW-0006		3C of 10	LUB OIL PRESSURE LOW	I-20C	UCP 2101G	E														
LT-2213 C		BK-GCS-HY-120-IN-DW-0006		5C of 10	COOLING WATER RESERVOIR LEVEL LOW LOW	I-22C	UCP 2101G							E	E							
TT-2213 C		BK-GCS-HY-120-IN-DW-0006		5C of 10	COOLING WATER RESERVOIR TEMPERATURE LOW	I-26C	UCP 2101G									E						
TT-2213 C		BK-GCS-HY-120-IN-DW-0006		5C of 10	COOLING WATER RESERVOIR TEMPERATURE HIGH	I-26C	UCP 2101G										E					
PT-2220 C		BK-GCS-HY-120-IN-DW-0006		5C of 10	COOLING WATER LINE PRESSURE HIGH	I-25C	UCP 2101G								E							
PT-2220 C		BK-GCS-HY-120-IN-DW-0006		5C of 10	COOLING WATER LINE PRESSURE LOW	I-25C	UCP 2101G						E									
HSL-2242 C1		BK-GCS-HY-120-IN-DW-0006		3C of 10	LOAD 0% SELECTOR SWITCH ON UCP	I-40C	UCP 2101G											DE	DE	DE	DE	DE
HSL-2242 C2		BK-GCS-HY-120-IN-DW-0006		3C of 10	LOAD 25% SELECTOR SWITCH ON UCP	I-40C	UCP 2101G											E	DE	DE	E	E
HSL-2242 C3		BK-GCS-HY-120-IN-DW-0006		3C of 10	LOAD 50% SELECTOR SWITCH ON UCP (NOTE 1)	I-40C	UCP 2101G											DE	E	DE	E	DE
HSL-2242 C4		BK-GCS-HY-120-IN-DW-0006		3C of 10	LOAD 75% SELECTOR SWITCH ON UCP	I-40C	UCP 2101G											E	E	E	E	E
HSL-2242 C5		BK-GCS-HY-120-IN-DW-0006		3C of 10	LOAD 100% SELECTOR SWITCH ON UCP	I-40C	UCP 2101G											E	E	E	E	DE

General Notes:

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NOTE 1: THE CRANK-END (PSOV-2201 C / 2204 C) AND HEAD-END (PSOV-2202 C / 2203 C) SIDES WILL BE CHANGED ALTERNATELY AS MENTIONED IN CONTROL PHILOSOPHY.