
	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>							
شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 1 از 12
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	GCS	PEDCO	120	PR	RT	0001	
							D05	

طرح نگهداشت و افزایش تولید 27 مخزن

FLARE NETWORK STUDY REPORT

نگهداشت و افزایش تولید میدان نفتی بینک




D05	May. 2023	IFA	M.Aryafar	M.Fakharian	A.M.Moseni	
D04	Apr. 2023	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
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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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شماره پیمان: 053 – 073 – 9184	<table><tr><th colspan="8">FLARE NETWORK STUDY REPORT</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>PR</td><td>RT</td><td>0001</td><td>D05</td></tr></table>	FLARE NETWORK STUDY REPORT								پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	PR	RT	0001	D05	شماره صفحه : 2 از 12
FLARE NETWORK STUDY REPORT																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	PR	RT	0001	D05																			

REVISION RECORD SHEET





PAGE	D00	D01	D02	D03	D04	D05
1	X	X	X	X	X	X
2	X	X	X	X	X	X
3	X					
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64						
65						

PAGE	D00	D01	D02	D03	D04	D05
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
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128						
129						
130						

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>								
شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 3 از 12	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	RT	0001		D05

CONTENTS

1.0	INTRODUCTION	4
2.0	SCOPE	5
3.0	NORMATIVE REFERENCES.....	5
3.1	LOCAL CODES AND STANDARDS.....	5
3.2	INTERNATIONAL CODES AND STANDARDS	5
3.3	THE PROJECT DOCUMENTS.....	5
3.4	ENVIRONMENTAL DATA	5
3.5	ORDER OF PRECEDENCE	6
3.6	ABBREVIATION	6
4.0	GENERAL DESCRIPTION.....	7
4.1	RELIEF LOAD SUMMARY	7
4.2	FLARE NETWORK SIZING	7
5.0	FLARE NETWORK SIMULATION BASIS.....	8
5.1	DIFFERENT SCENARIOS	8
6.0	RESULTS	9
7.0	SIMULATION REPORT AND SCHEMATIC OF FLARE DISTRIBUTION NETWORK	12

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>							 شرکت توسعه تروابران  HIRGAN ENERGY 	
شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 4 از 12	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	RT	0001		D05

1.0 INTRODUCTION

Binak oilfield in Bushehr province is a part of the southern oilfields of Iran, is located 20 km northwest of Genaveh city.



With the aim of increasing production of oil from Binak oilfield, an EPC/EPD Project has been defined by NIOC/NISOC and awarded to Petro Iran Development Company (PEDCO). Also PEDCO (as General Contractor) has assigned the EPC-packages of the Project to "Hirgan Energy - Design and Inspection" JV.

As a part of the Project, a New Gas Compressor Station (adjacent to existing Binak GCS) shall be constructed to gather of 15 MMSCFD (approx.) associated gases and compress & transfer them to Siahmakan GIS.

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT:	National Iranian South Oilfields Company (NISOC)
PROJECT:	Binak Oilfield Development – Surface Facilities; New Gas Compressor Station
EPD/EPC CONTRACTOR (GC):	Petro Iran Development Company (PEDCO)
EPC CONTRACTOR:	Joint Venture of : Hirgan Energy – Design & Inspection (D&I) Companies
VENDOR:	The firm or person who will fabricate the equipment or material.
EXECUTOR:	Executor is the party which carries out all or part of construction and/or commissioning for the project.
THIRD PARTY INSPECTOR (TPI):	The firm appointed by EPD/EPC CONTRACTOR (GC) and approved by CLIENT (in writing) for the inspection of goods.
SHALL:	Is used where a provision is mandatory.
SHOULD:	Is used where a provision is advisory only.
WILL:	Is normally used in connection with the action by CLIENT rather than by an EPC/EPD CONTRACTOR, supplier or VENDOR.
MAY:	Is used where a provision is completely discretionary.

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شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 5 از 12	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	RT	0001	D05	

2.0 SCOPE

The scope of this document is to establish the basic engineering data requirements needed for detail design of Binak Gas Compressor Station.

This document is intended to summarize the sizing calculations of flare network for the "Binak Gas Compressor Station" project. The current report has been performed based on Plot Plan, Flare Load Summary and Process Design Criteria.

3.0 NORMATIVE REFERENCES

This report should be read in conjunction with the following general standards and guidelines:

3.1 LOCAL CODES AND STANDARDS

- IPS-E-PR-450 Process Design of Pressure Relieving Systems Inclusive Safety Relief Valves
- IPS-E-PR-460 Process Design of Flare & Blowdown Systems

3.2 INTERNATIONAL CODES AND STANDARDS



- API-RP-521 "Guide for Pressure-Relieving and Depressurizing Systems" Fifth Edition, 2007.
- API-RP-520 "Sizing, Selection and Installation of Pressure-Relieving Devices in Refineries
- ISO 15156 Petroleum and Natural Gas Industries. Materials for use in H₂S Containing Environments in Oil and Gas Production

3.3 THE PROJECT DOCUMENTS

- Piping & Instrumentation Diagram BK-GCS-PEDCO-120-PR-PI-0002~0025
- ESD Philosophy BK-GCS-PEDCO-120-PR-PH-0005
- Process Design Criteria BK-GNRAL-PEDCO-000-PR-DC-0001
- Calculation Note For PSV Sizing BK-GCS-PEDCO-120-PR-CN-0004
- Calculation Note For Depressurizing (Min. Design Temperature) BK-GCS-PEDCO-120-PR-CN-0007

3.4 ENVIRONMENTAL DATA

Refer to "Process Basis of Design; Doc. No. BK-GNRAL-PEDCO-PR-DB-0001".

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شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 7 از 12	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	RT	0001	D05	

4.0 GENERAL DESCRIPTION

The flare must cater to the possibility of depressurization of equipment during emergencies, for this purpose, based on high flow rate & resulted MDMT of depressuring calculation.

Flare systems of Binak Gas Compressor Station are considered for discharge gas during depressurizing and pressure safety valve relief from compressor area (included compressors, scrubbers & air coolers), gas K.O drums and headers.

Flare system consists of following items:

- Flare Header
- Flare K.O. Drum
- Flare Drum Pumps
- Flare Stack
- Flare Ignition Package

Fluid from flare header flows to the flare K.O. drum V-2201 designed to prevent from the possibility that liquids will be entrained with the vent gases. Vent gas flow through one header to the flare stack FST-2201. The liquids (hydrocarbons, water) recovered within the flare K.O. drum are normally sent to the closed drain vessel V-2202 by flare drum pumps (P-2202-A/B).

4.1 RELIEF LOAD SUMMARY



For detail of the flare loads, relevant temperature and pressure refer to the document number BK-GCS-PEDCO-120-PR-LI-0008 entitled "Relief Load Summary". Released gas characteristics (flow rate, temperature and pressure) included in this document which refer to the safety device upstream conditions (process side).

4.2 FLARE NETWORK SIZING

Flare lines including tail pipes, sub headers and main headers shall be determined in accordance with the clause 5 of the document number BK-00-HD-000-PR-DC-0001 entitled "Process Design Criteria". The major criteria governing the sizing of the flare headers are the back pressure and fluid velocity. Based on API 521 recommendation, the rated flow of PSVs will be used in the calculations for the tailpipes. Peak flow of each BDV (fire case, first time step) is used for flare network sizing.

All the possible fire scenarios shall be considered. A fire scenario consists of a potential fire area of typically 300 m² where a pool fire due to hydrocarbon accumulation is likely to occur. A circle of about 10 m radius centered on the equipment protected by the relevant PSV should be considered.

Based on flare network calculation flare header with size 10" is directed to V-2201 and from there

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شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 8 از 12	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	RT	0001	D05	

it routed to stack with line 12”.

5.0 FLARE NETWORK SIMULATION BASIS



Aspen Flare System Analyzer Ver. 11 has been used for flare header, sub-header and tail pipe sizing with the following basis:

- Piping roughness for carbon steel: 0.04572 mm
- Flare tip pressure drop: 0.1 barg
- VLE and enthalpy: Peng-Robinson equation of state
- Friction factor: Chen correlation
- Pressure drop: Beggs and Brill correlations
- Back pressure: Back pressure to be compatible with relief valve type and BDV's restriction orifice follows:
 - 10 % of PSV set pressure for the Conventional valve type
 - 50 % of PSV set pressure for the balanced valve type
 - 50 % of pressure upstream orifice for the BDV's to ensure critical flow in the orifice

5.1 DIFFERENT SCENARIOS

Following scenarios have been considered within the current study:

- Case 1: BDV-Fire
- Case 2: Cold Shutdown Blow Down
- Case 3: Spurious Blow Down
- Case 4: Fire Case area 1 (PSV-2111/2112, PSV-2113/2114, PSV-2131A ,PSV-2121A, PSV-2271 are in fire)
- Case 5: Fire Case area 2 (PSV2131A ,PSV2121A, PSV2131B ,PSV2121B are in fire)
- Case 6: Fire Case area 3 (PSV2131B, PSV2121B, PSV2131C, PSV2121C, PSV2141 are in fire)
- Case 7: Block Outlet PSV-2122/2123
- Case 8: Block Outlet PSV-2132/2133
- Case 9: PCV-2152 (Relief total flow rate of compressor station)
- Case 10: PCV-2135 A/B
- Case 11: Block Outlet PSV-2113/2114
- Case 12: Block Outlet PSV-2111/2112
- Case 13: Block Outlet PSV-2141/2142

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شماره پیمان: 053 – 073 – 9184	FLARE NETWORK STUDY REPORT							شماره صفحه : 9 از 12	
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	RT	0001	D05	

6.0 RESULTS



Case 4 with 39824 kg/hr gas flow rate (Relief total flow rate of compressor station) is governing scenario for flare header sizing.

Flare network simulation results for the designed arrangement in main scenario have been summarized in below table.

Based on results obtained, the MDMT for flare network system is about -28°C in spurious blow down case, so the material of piping for this System is selected Carbon Steel.

Flare stack's diameter is 12 inch. Obviously calculated size of piping & flare stack shall be finalized by flare package vendor at detail design phase, due to finalization of plot plan, piping plan.

The calculated size of relieving devices downstream Lines is reported in below table and for calculated header size refer to attachment 1.

Schematic of the flare distribution networks and simulation report are presented in attachment 1.

NOTE 1: According to Fire Case area 1, design pressure for LP Flare K.O drum (V-2201) should be consider to 5.5 bar g.







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<p>شماره پیمان:</p> <p>053 – 073 – 9184</p>	FLARE NETWORK STUDY REPORT								<p>شماره صفحه : 10 از 12</p>
	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
	BK	GCS	PEDCO	120	PR	RT	0001	D05	

Table 1 - Flare network simulation results

	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																									
شماره پیمان: 053 – 073 – 9184	<table><tr><th colspan="8">FLARE NETWORK STUDY REPORT</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>PR</td><td>RT</td><td>0001</td><td>D05</td></tr></table>	FLARE NETWORK STUDY REPORT								پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	PR	RT	0001	D05	شماره صفحه : 11 از 12
FLARE NETWORK STUDY REPORT																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	PR	RT	0001	D05																			

Flare Load Summary For LP Flare										
Source	Location	Flowrate kg/hr	Relieving Temp(°C)	Set Pressure(barg)	Back Temp (°C)	Back Pressure (barg)	MW	Tail Pipe Rho V2 (kg/m.s²)	Tail Pipe Size	Remarks
DEPRESSURIZING FIRE CASE										
BDV-2134A	V-2102 A	778.4	60.0	22.0	52.0	0.8	24.52	1262	3"	
BDV-2134B	V-2102 B	778.4	60.0	22.0	52.0	0.8	24.52	1277	3"	
BDV-2132A	AE-2102 A	1333.0	60.0	62.0	42.8	1.2	24.52	47444	1 1/2"	
BDV-2132B	AE-2102 B	1333.0	60.0	62.0	42.8	1.1	24.52	48077	1 1/2"	
BDV-2141	V-2103	1722.0	60.0	62.0	42.6	1.1	24.56	81573	1 1/2"	
BDV-2151	PK-2101	4578.0	60.0	62.0	41.5	0.9	24.57	44904	3"	
BDV-2110	V-2105	5665.4	36.9	9.0	30.9	0.1	24.52	318	3"	
Flare Load		16188								
COLD SHUTDOWN										
BDV-2134A	V-2102 A	796.4	21.0	22.0	12.7	0.8	21.6	1289	3"	
BDV-2134B	V-2102 B	796.4	21.0	22.0	12.7	0.8	21.6	1304	3"	
BDV-2132A	AE-2102 A	1414.0	21.0	62.0	1.7	1.2	21.6	51409	1 1/2"	
BDV-2132B	AE-2102 B	1414.0	21.0	62.0	1.7	1.2	21.6	52088	1 1/2"	
BDV-2141	V-2103	1825.0	21.0	60.0	1.7	1.5	21.6	88142	1 1/2"	
BDV-2151	PK-2101	4843.0	21.0	62.0	1.4	1.0	21.6	48717	3"	
BDV-2110	V-2105	5517.1	19.0	9.0	14.3	1.8	24.52	64222	3"	
Flare Load		16606								
SPURIOUS BLOWDOWN CASE										
BDV-2134A	V-2102 A	725.6	60.0	22.0	53.8	0.8	21.6	1267	3"	
BDV-2134B	V-2102 B	725.6	60.0	22.0	53.8	0.8	21.6	1282	3"	
BDV-2132A	AE-2102 A	1199.0	60.0	62.0	44.0	1.2	21.6	44238	1 1/2"	
BDV-2132B	AE-2102 B	1199.0	60.0	62.0	44.0	1.1	21.6	44842	1 1/2"	
BDV-2141	V-2103	1548.0	60.0	62.0	44.0	1.3	21.6	76164	1 1/2"	
BDV-2151	PK-2101	4112.0	60.0	62.0	44.0	0.9	21.6	41957	3"	
BDV-2110	V-2105	5517.1	19.0	9.0	14.3	1.8	21.6	64222	3"	
Flare Load		15026								
FIRE AREA 1										
PSV-2111/2112	V-2104	37247	284.0	9.00	280.6	3.4	48.17	23634	10"	
PSV-2113/2114	V-2105	1046	182.5	9.00	148.6	3.3	18.02	9479	8"	
PSV-2121A	V-2101A	374	227.4	22.00	179.0	3.1	18.02	1754	4"	
PSV-2271	V-2205	175	182.6	9.00	148.6	3.2	18.02	1363	2"	
PSV-2131A	V-2102A	982	208.3	22.00	203.7	3.3	24.57	7487	2"	
Flare Load		39824								
FIRE AREA 2										
PSV-2121A	V-2101A	374	227.4	22.00	179.0	0.3	18.02	6351	4"	
PSV-2131A	V-2102A	982	208.3	22.00	203.7	0.9	24.57	25383	2"	
PSV-2121B	V-2101B	374	227.4	22.00	179.0	0.2	18.02	6360	4"	
PSV-2131B	V-2102B	982	208.3	22.00	203.7	1.0	24.57	27859	2"	
Flare Load		2713								
FIRE AREA 3										
PSV-2121B	V-2101B	374	227.4	22.00	179.0	0.3	18.02	6081	4"	
PSV-2131B	V-2102B	982	208.3	22.00	203.7	1.0	24.57	24322	2"	
PSV-2121C	V-2101C	374	227.4	22.00	179.0	0.3	18.02	6089	4"	
PSV-2131C	V-2102C	982	208.3	22.00	203.7	1.0	24.57	26692	2"	
PSV-2141/2142	V-2103	1826	188.0	62.00	168.9	0.6	24.59	46658	8"	
Flare Load		4539								
Blocked Outlet PSV-2122/2123										
PSV-2122/2123(A/B/C)	C-2101A/B/C	8664	124.8	22.00	115.5	0.8	24.52	33895	6"	
Flare Load		8664								
Blocked Outlet PSV-2132/2133										
PSV-2132/2133 (A/B/C)	C-2102 A/B/C	8664	142.3	62.00	119.3	0.9	24.52	40209	6"	
Flare Load		8664								
PV-2152										
PV-2152	STATION OUTLET	20605	60.0	52.90	44.0	1.7	24.52	52848	6"	
Flare Load		20605								
PCV-2135A/B										
PCV-2135A	AE-2102A	10352	60.0	54.10	44.3	1.5	24.52	56694	4"	
PCV-2135B	AE-2102B	10352	60.0	54.10	44.3	1.5	24.52	56694	4"	
Flare Load		20703								
Blockoutlet PSV-2113/2114										
PSV-2113/2114	V-2105	17833	36.9	9.00	28.6	1.3	24.52	20093	8"	
Flare Load		17833								
Blockoutlet PSV-2111/2112										
PSV-2111/2112	V-2104	11270	32.0	9.00	25.1	0.7	23.47	43598	10"	
Flare Load		11270								
Blockoutlet PSV-2121 A/B/C										
PSV-2121 A/B/C	V-2101 A/B/C	2166	60.0	22.00	48.8	0.2	24.52	4213	4"	
Flare Load		2166								
Blockoutlet PSV-2141/2142										
PSV-2141/2142	V-2103	17253	60.0	62.00	19.5	0.9	24.56	28638	8"	
Flare Load		17253								

	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>																									
شماره پیمان: 053 – 073 – 9184	<table><tr><th colspan="8">FLARE NETWORK STUDY REPORT</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>PR</td><td>RT</td><td>0001</td><td>D05</td></tr></table>	FLARE NETWORK STUDY REPORT								پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	BK	GCS	PEDCO	120	PR	RT	0001	D05	شماره صفحه : 12 از 12
FLARE NETWORK STUDY REPORT																										
پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه																			
BK	GCS	PEDCO	120	PR	RT	0001	D05																			

7.0 SIMULATION REPORT AND SCHEMATIC OF FLARE DISTRIBUTION NETWORK

Please find attachment-01

ATTACHMENT-01

