

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
شماره پیمان: 053 - 073 - 9184	PROCESS ELECTRICAL LOAD LIST							شماره صفحه: 1 از 6	
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	PEDCO	120	PR	LI	0002		D02

طرح نگهداشت و افزایش تولید 27 مخزن

PROCESS ELECTRICAL LOAD LIST

نگهداشت و افزایش تولید میدان نفتی بینک

D02	AUG.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D01	MAR.2022	IFA	M.Aryafar	M.Fakharian	M.Mehrshad	
D00	JAN.2022	IFC	M.Aryafar	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

CLIENT Doc. Number: F0Z-708808

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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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.

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:	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 EPC CONTRACTOR and approved by GC & 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.

2.0 SCOPE

The purpose of this document is to provide summary of process electrical loads for BINAK Gas Compressor Station”.

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3.0 NORMATIVE REFERENCES

3.1 THE PROJECT DOCUMENTS

- BK-GNRAL-PEDCO-000-PR-DC-0001 Process Design Criteria
- BK-GNRAL-PEDCO-000-PR-DB-0001 Process Basis Of Design
- BK-GCS-PEDCO-120-PR-UF-0001 Utility Flow Diagrams (UFD)
- BK-GCS-PEDCO-120-PR-PI-000۲~0025 P&ID
- BK-GCS-PEDCO-120-PR-PF-0001 Process Flow Diagram (PFD)

3.2 ENVIRONMENTAL DATA

Refer to "Process Basis of Design; Doc. No. BK-GNRAL-PEDCO-000-PR-DB-0001".

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4.0 ELECTRICAL CONSUMPTION



No.	ITEM No.	SERVICE	C / I	Configuration	Emergency	N/S	Efficiency	POWER (EACH)
								BHP (kW)
1	AC-2101 A/B/C	1 st Stage Air Coolers	C	2+1	-	2N+S	-	10 (Each) (NOTE1)
2	AC-2102 A/B/C/	2 nd Stage Air Coolers	C	2+1	-	2N+S	-	11 (Each) (NOTE1)
3	C-2101 A/B/C C-2102 A/B/C	1 st & 2 nd Stage Gas Compressor Other Consumption + Package	C	2+1	-	2N+S	-	484+448 (Each)
4	PK-C-2203 A/B	Instrument & Plant Air Package	C	1+1	E	N+S	-	40 (NOTE1)
5	PK-Dr-2203 A/B	Air Dryer Package	C	1+1	-	N	-	2 (NOTE1)
6	PK-C-2204	Air compressor for N ₂ Package	C	1	-	N	-	30
7	PK-2204	Nitrogen Package	C	1	-	N	-	2 (NOTE1)
8	PK-2201	LP Flare Package (Including blower for smokeless Flare)	C	1	-	N	-	22.5 (NOTE1)
9	IG-2201	LP Flare Ignition Package	I	1	E	N	-	2 (NOTE1)
10	PK-2207	Corrosion Inhibitor Package	C	1	-	N	-	2 (NOTE1)
11	PK-2208	Methanol Injection Package	DELETED					
12	PK-2101	Dehydration Package	C	1	-	N	-	20 (NOTE1)
13	P-2203A/B	Sump Pump	I	1+1	E	S	%31	1
14	P-2202 A/B	Closed Drain Pumps	I	1+1	E	N	%22	2.9
15	P-2101A/B	Slug Pumps	I	1+1	-	S	%61	7
16	P-2302 A/B	Fire Water Jockey Pumps	I	1+1	-	S	%40	12
17	P-2301 A	Fire Water electric Pump	I	1	-	N	%70	220
18	P-2209	Potable Water Pumps	I	1	-	N	%31	1
19	P-2206	Diesel Oil Pump	I	1	-	N	%52	0.3
20	P-2201A/B	LP Flare K.O. Drum Pumps	I	1+1	E	N	%15	0.6
21	P-2103 A/B	Glycol Transfer Pumps	I	1+1	-	N	%31	1
22	P-2102	Glycol Manual Pump	I	1	-	N	%31	0.4
23	P-2104	Glycol Drain Pump	I	1	-	N	%22	0.8
24	-	MOV	I	2	-	N	-	2(NOTE1)
25	Electrical tracing 1 st Stage	1 st Stage Compressors	C	2+1	-	2N+S	-	0.227
26	Electrical tracing 2 nd Stage	2 nd Stage Compressors	C	2+1	-	2N+S	-	2.625

NOTE 1: Will be finalized by vendor.

C: Continues/ E: Emergency Load/ I: Intermittent/ N: Normal Load/ S: Standby