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| **طرح نگهداشت و افزایش تولید 27 مخزن** |
| **RELIEF LOAD SUMMARY****نگهداشت و افزایش تولید میدان نفتی بینک** |
|  |  |  |  |  |  |  |
| D03 | AUG.2024 | AFC | M.Aryafar | M.Fakharian | M.Sadeghian |  |
| D02 | SEP.2023 | IFA | M.Aryafar | M.Fakharian | A.M.Mohseni |  |
| D01 | JAN.2023 | IFA | M.Aryafar | M.Fakharian | M.Mehrshad |  |
| D00 | APR. 2022 | IFC | M.Aryafar | M.Fakharian | M.Mehrshad |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **CLIENT Approval** |
| **Class:1** | **CLIENT Doc. Number:F0Z-708537** |
| **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** |

**REVISION RECORD SHEET**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |  | **PAGE** | **D00** | **D01** | **D02** | **D03** | **D04** |
| **1** | X | X | X | X |  | **66** |  |  |  |  |  |
| **2** | X | X | X | X |  | **67** |  |  |  |  |  |
| **3** | X |  |  |  |  | **68** |  |  |  |  |  |
| **4** | X |  |  |  |  | **69** |  |  |  |  |  |
| **5** | X |  |  |  |  | **70** |  |  |  |  |  |
| **6** | X | X | X |  |  | **71** |  |  |  |  |  |
| **7** |  |  | X |  |  | **72** |  |  |  |  |  |
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1. **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, New Gas/Condensate Pipelines (from Binak New GCS to Siahmakan GIS/Binak PU) shall be constructed.

**GENERAL DEFINITION**

The following terms shall be used in this document.

|  |  |
| --- | --- |
| CLIENT:  | National Iranian South Oilfields Company (NISOC)  |
| PROJECT: | Binak Oilfield Development – Surface Facilities; Gas & Gas-Condensate Pipelines |
| 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. |

1. **Scope**

The scope of this document is to present summary of flare loads in BINAK new Pipelines.

1. **NORMATIVE REFERENCES**

## Local Codes and Standards

|  |  |
| --- | --- |
| * IPS-E-PR-450
 | Process design of pressure relieving Systems inclusive safety relief valves |

## International Codes and Standards

|  |  |
| --- | --- |
| * API-STD-520
 | Sizing, Selection and Installation of Pressure Relieving Devices in Refineries, Part 1-Sizing and Selection |
| * API-STD-521
 | Pressure Relieving and Depressuring Systems |

## The Project Documents

|  |  |
| --- | --- |
| * BK-GNRAL-PEDCO-000-PR-DC-0001
 | Process Design Criteria |
| * BK-PPL-PEDCO-320-PR-PF-0001
 | Process Flow Diagram For pipelines |
| * BK-PPL-PEDCO-320-PR-PI-0001
* BK-PPL-PEDCO-320-PR-PI-0002
 | P&ID - Gas Pipeline (to Siahmakan G.I. Station)P&ID - Condensate Pipeline (to Binak PU) |

## ENVIRONMENTAL DATA

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

1. **RELIEF LOAD SUMMARY TABLE**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tag** | **Location** | **Fluid** | **Set pressure(barg)** | **Case** | **Required mass flow(Kg/h)** | **CP/CV** | **Z****Factor** | **Molecular Weight** | **Temp (ºC)** | **P&ID Number** |
| PSV-3201 | PL-3201 | GAS | 62 | Fire Case | 1799.99 | 1.448 | 0.829 | 24.58 | 212 | BK-PPL-PEDCO-320-PR-PI-0001(1/3) |
| PSV-3202 | PR-3201 | GAS | 62 | Fire Case | 4300.75 | 1.437 | 0.827 | 24.58 | 289 | BK-PPL-PEDCO-320-PR-PI-0001(3/3) |

**ATTACHMENT: SOFTWARE REPORT**