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| **طرح نگهداشت و افزایش تولید 27 مخزن** | | | | | | | |
| **CALCULATION NOTE FOR OUTDOOR AREA LIGHTING SYSTEM**  **نگهداشت و افزایش تولید میدان نفتی بینک** | | | | | | | |
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| D00 | June. 2022 | IFC | H.Shakiba | M.Fakharian | M.Mehrshad |  |
| **Rev.** | **Date** | **Purpose of Issue/Status** | **Prepared by:** | **Checked by:** | **Approved by:** | **CLIENT Approval** |
| Class:2 | | Client Doc. Number: F0Z-709007 | | | | |
| 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** |
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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, 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.

1. **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 COMPANY (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**

This specification describes the practices that shall be employed and the Standards that will be required to be met for the OutdoorLightings Illumination

1. **NORMATIVE REFERENCES**
   1. **Codes and Standards**

* IPS-E-EL-100 Engineering Standard For Electrical System Design (Industrial And Non-Industrial)
  1. **The Project reference Documents**
* BK-GNRAL-PEDCO-000-PR-DB-0001 Process Basis Of Design
* BK-GNRAL-PEDCO-000-EL-DC-0001 Electrical System Design Criteria
* BK-GNRAL-PEDCO-000-EL-SP-0007 Specification For Lighting & Small Power System

1. **LANGUAGE AND SYSTEM OF UNITS**

All documentation, drawings, data, etc. furnished by the manufacturer shall be in English. SI metric system of measurement shall be used except for pipe and pipe fitting sizes, flange ratings and nozzle dimensions in which inch will be used.

1. **Design software**

Calculation is performed with version 4.13 of DIALUX Software.

1. **LIGHTING CALCULATION – dETAIL REPORT**

It is assumed that lighting tower exist & new floodlight has been installed on them. Despite this assumption, 3 towers have been added.

DIALUX report has been attached in “Attachment”