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CONTROL/ESD/FGS SYSTEM OVERALL BLOCK DIAGRAM

FOR BIBI HAKIMEH PRODUCTION UNIT NO.1

4/س/م
منها

ATRIN RAD MEHR
سهامی خاص
شماره ثبت: ۴۱۴۵۵۰

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| DOC. NO. | BH-17-SM-100-IN-BD-0274 |
| CONTRACT NO. | 053-073-9189 |

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| DATE | 14.JAN.24 | ISSUED FOR APPROVAL | M.ALYANI | B.SHAMAMERDIN | A.HAMADI |
| DATE | 30.SEP.23 | ISSUED FOR APPROVAL | M.ALYANI | B.SHAMAMERDIN | A.HAMADI |
| DATE | 16.MAY.23 | ISSUED FOR APPROVAL | M.ALYANI | B.SHAMAMERDIN | A.HAMADI |
| DATE | 08.OCT.22 | ISSUED FOR COMMENT | S.YAMENI | B.SHAMAMERDIN | A.HAMADI |
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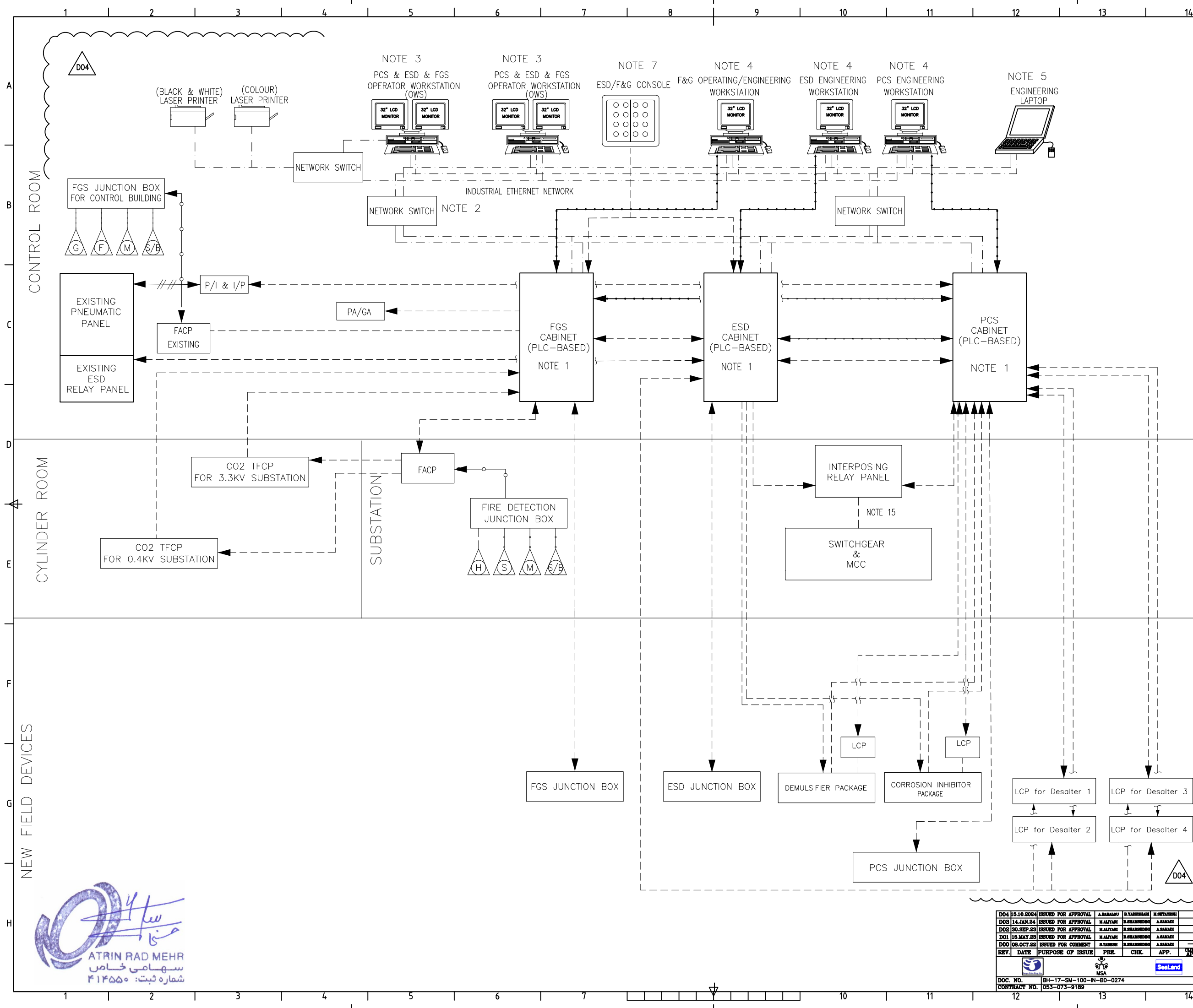
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NOTES

1-BACK OF THE PANEL IS MARSHALLING CABINET.
2-NETWORK SWITCH AND INDUSTRIAL ETHERNET NETWORK SHALL BE REDUNDANT
3-THE QUANTITY OF OWS SHALL BE CONSIDERED TWO NUMBERS AND INCLUDED INDUSTRIAL DUAL MONITOR STAND ARMS.
4-THE QUANTITY OF EWS/OWS SHALL BE CONSIDERED ONE NUMBER AND INCLUDED SINGLE MONITOR.
5-ONE INDUSTRIAL LAPTOP SHALL BE CONSIDERED TO COMMUNICATE WITH PCS, ESD, FGS.
6-ALL SERIAL COMMUNICATION SHALL BE PROVIDED REDUNDANT TO CONNECT PCS TO ESD/FGS.
7-RESET AND TOTAL EMERGENCY SHUT DOWN BUTTONS SHALL BE CONSIDERED ON ESD CONSOLE.
8-CYBER SECURITY REQUIREMENT SHALL BE CONSIDERED BY VENDOR(SUCH AS FIRE WALL,...).
9-A TOTAL EMERGENCY SHUT DOWN LOCKABLE BUTTON SHALL BE CONSIDERED IN GUARD HOUSE.
10-ENGINEERING WORKSTATION AND LAPTOP SHALL HAVE ALL REQUIRED SOFTWARES AND HARDWARE COMPONENTS FOR COMMUNICATING WITH PCS,ESD BMS,FGS PANELS.
11-PANELS ARE SCHEMATIC AND PANEL QUANTITIES HAVE BEEN MENTIONED IN CONTROL ROOM LAYOUT & ARRANGEMENT DRAWING.
12-COMMUNICATION SIGNAL IS CONSIDERED ACCORDING TO CAUSE & EFFECT DOCUMENT. ESD COMMANDS BETWEEN NEW & EXISTING SYSTEMS ARE PERFORMED ONLY THROUGH HARDWIRE SIGNALS.
13- EXISTING AND NEW PANELS ARE INTEGRATED
14- CONNETION BETWEEN SWITCHGEAR FEEDERS AND IRP IS BY ELECTRICAL DEP.

ABBREVIATIONS & LEGEND

--- ETHERNET
--- ELECTRONIC SIGNAL
--- SERIAL LINK
--- PNEUMATIC
--- ADDRESSABLE SIGNAL

LCP LOCAL CONTROL PANEL
FGS FIRE AND GAS SYSTEM
PCS PROCESS CONTROL SYSTEM
ESD EMERGENCY SHUT DOWN SYSTEM
FACP FIRE ALARM CONTROL PANEL
CO2 TFCP CO2 TOTAL FLOODING CONTROL PANEL
MCC MOTOR CONTROL CENTER
PA/GA PAGING/GENERAL ALARM
P/I PNEUMATIC TO SIGNAL CONVERTOR
I/P SIGNAL TO PNEUMATIC CONVERTOR

| REFERENCE DRAWINGS | | DRG. No. | |
|---|-------------------------|----------|--|
| Specification for Emergency Shutdown System | BH-17-SM-100-IN-SP-0058 | | |
| Specification for Control System | BH-17-SM-100-IN-SP-0057 | | |
| Specification for Panels and Cabinets | BH-17-SM-100-IN-SP-0056 | | |
| Specification for Instrument and Control of Package Unit System | BH-17-SM-100-IN-SP-0055 | | |

| REV. | DESCRIPTION | BY | | DATE | |
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DEVELOPMENT OF 28 RESERVOIRS/
BIBI HAKIM OHILFIELD (EPC)

REVENAPING OF PRODUCTION & DESALTING UNITS OF BIBI HAKIM OH 1&2

TITLE
CONTROL/ESD/FGS SYSTEM OVERALL BLOCK DIAGRAM
FOR BIBI HAKIM OH PRODUCTION UNIT NO.1

DATE:--- DRAWN BY:--- CHECKED BY:--- PROJECT ENG. CHECKED BY:---
SCALE:N.T.S. ---

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY:--- DATE:---
BUDGET REF. LOCATION SIZE CLASS SERIAL NUMBER SHEET REVISION

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| DO4 | 15.10.2024 | ISSUED FOR APPROVAL | A. RAHMAN | B. YADAV | M. SHARMA | |
| DO3 | 14.JAN.24 | ISSUED FOR APPROVAL | M. ALYANI | B. RAHMAN | A. RAHMAN | |
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| DO0 | 08.OCT.22 | ISSUED FOR COMMENT | S. TANDON | B. RAHMAN | A. RAHMAN | |

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SeeLand

DOC. NO. BH-17-SM-100-IN-BD-0274
CONTRACT NO. 053-073-9189

ATIRIN RAD MEHR
سهامی خاص
شماره ثبت: ۴۱۴۵۵۰