طرح نگهداشت و افزایش تولید ۲۷ مخزن

ELECTRICAL POWER & CONTROL CABLE LIST - EXTENSION OF BINAK B/C MANIFOLDS

نگهداشت و افزایش تولید میدان نفتی بینک

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Rev.	**Date**	**Purpose of Issue / Status**	**Prepared by:**	**Checked by:**	**Approved by:**	**CLIENT Approval**

Class: 1 | **CLIENT Doc. Number: F0Z-708035**

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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1. ELECTRICAL CABLE NUMBERING SYSTEM

XXX-XXXXX- XX
1 2 3

(1) 1ST Group (Cable Type Commodity Code):

HP: High Voltage Power Cable (20 KV & Above)

MP: Medium Voltage Power Cable (6 KV & Above)

LP: Low Voltage Power Cable (Voltage Less Than 1KV)

C: Control Cables

I: Instrument Cable

(2) 2ND Group

From Equipment

(3) 3RD Group

Consumer Description: To Equipment Which will be fed.

2. CABLE TYPE

A: CU/XLPE/LSH/PVC/SWA/PVC - N2XKYRY (LV MULTI-CORE)

B: CU/XLPE/SWA/PVC - N2XRY (LV MULTI-CORE)

C: CU/XLPE/PVC/AWA/PVC - N2XRY (LV SINGLE-CORE)

D: CU/PVC/LSH/PVC/SWA/PVC - NYKYRY (CONTROL MULTI-CORE)

E: CU/PVC/SWA/PVC - NYRY (CONTROL MULTI-CORE)

F: CU/SM/XLPE/SM/SC/PVC/LSH/PVC/SWA/PVC - N2XSEYKYRY (MV MULTI-CORE)

G: CU/SM/XLPE/SM/SC/PVC/LSH/PVC/AWA/PVC - N2XSYKYRY (MV SINGLE-CORE)

H: CU/SM/XLPE/SM/SC/PVC/AWA/PVC - N2XSYRY (MV SINGLE-CORE)

I: CU/SM/XLPE/SM/SC/PVC/SWA/PVC - N2XSEYRY (MV MULTI-CORE)

J: CU/SM/XLPE/SM/SC/PVC/SWA/PVC - N2XSEYRY (HV MULTI-CORE)

K: CU/SM/XLPE/SM/SC/PVC/AWA/PVC - N2XSYRY (HV SINGLE-CORE)

R: CU/PVC/SC/BD/SC/PVC/LSH/PVC/SWA/PVC (RTD CABLE)

S: CU/XLPE/PVC - N2XY (LV SINGLE-CORE FLEXIBLE)

Z: FIRE RESISTANT OR MICC LIGHTING CABLE (FOR HAZARDOUS AREAS SUCH AS BATTERY ROOMS ...)

Notes:

1- Since there is only one Oil Sump Pump, therefore IRP shall be considered in related cell of motor. Items 16 & 17 of cable list shall be deleted.

2-Reference documents are as below:

Area Electrical Cable Route & Section Layout - Extension of Binak B/C Manifold (BK-W007S-PEDCO-110-EL-PY-0002)

BK-W007S-PEDCO-110-EL-LI-0002-D00-ELECTRICAL POWER CONTROL CABLE LIST - EXTENSION OF BINAK B/C MANIFOLD

Item	Rev	Cable Tag No.	Service Voltage (KV)	Equipment Tag				Rating (KW)	Size (mm2)	Cable Size (SQMM)				Length (m)	O.D (mm)	Cable Type	Description	Route
				From	Gland (Source)	To	Gland (Field)			Core	Phase	N	E					
01	D00	LP-MCC-UPS01A	0.4	Extension LV Switchgear in Manifold	M25	110 VAC UPS (Charger A)	M25	15	4×10	4C	10	10	-	50	22.1	B	110VAC UPS A	01/03
02	D00	LP-UPS01A-FB1A	0.110DC	110 VAC UPS (Charger A)	M32	Fuse Box1-A	M32	-	2×25	2C	25	-	-	30	25.2	B	UPS Fuse Box A	4
03	D00	LP-FB1A-BAT1A	0.110DC	Fuse Box1-A	M32	Battery Bank-A	M32	-	2×25	2C	25	-	-	30	25.2	B	UPS Battery Bank A	-
04	D00	LP-MCC-UPS01B	0.4	Extension LV Switchgear in Manifold	M25	110 VAC UPS (Charger B)	M25	15	4×10	4C	10	10	-	50	22.1	B	110VAC UPS B	01/03
05	D00	LP-UPS01B-FB1B	0.110DC	110 VAC UPS (Charger B)	M32	Fuse Box1-B	M32	-	2×25	2C	25	-	-	30	25.2	B	UPS Fuse Box B	4
06	D00	LP-FB1B-BAT1B	0.110DC	Fuse Box1-B	M32	Battery Bank-B	M32	-	2×25	2C	25	-	-	30	25.2	B	UPS Battery Bank B	-
07	D00	LP-MCC-UPSBypass	0.4	Extension LV Switchgear in Manifold	M25	110 VAC for Instrument (Bypass)	M25	8	4×10	4C	10	10	-	50	22.1	B	110VAC UPS By Pass	01/03
08	D00	LP-MCC-CH01A	0.4	Extension LV Switchgear in Manifold	M25	24 VDC for FACP (Charger A)	M25	1.2	4×4	4C	4	4	-	100	17.7	B	24VDC Charger A	01/02/05/06/07/08/09
09	D00	LP-CH01A-FB1A	0.024DC	24 VDC for FACP (Charger A)	M40	Fuse Box 1-A	M40	-	2×95	2C	95	-	-	30	37.8	B	DC Charger Fuse Box A	10
10	D00	LP-FB1A-BAT1A	0.024DC	Fuse Box 1-A	M40	Battery Bank-A	M40	-	2×95	2C	95	-	-	30	37.8	B	DC Charger Battery Bank A	-
11	D00	LP-MCC-CH01B	0.4	Extension LV Switchgear in Manifold	M25	24 VDC for FACP (Charger B)	M25	1.2	4×4	4C	4	4	-	100	17.7	B	24VDC Charger B	01/02/05/06/07/08/09
12	D00	LP-CH01B-FB1B	0.024DC	24 VDC for FACP (Charger B)	M50	Fuse Box 1-B	M50	-	2×95	2C	95	-	-	30	37.8	B	DC Charger Fuse Box B	10
13	D00	LP-FB1B-BAT1B	0.024DC	Fuse Box 1-B	M40	Battery Bank-B	M40	-	2×95	2C	95	-	-	30	37.8	B	DC Charger Battery Bank B	-
14	D00	LP-MCC-PDP01	0.4	Extension LV Switchgear in Manifold	M25	PDP-01 in Control Room	M25	1.184	4×4	4C	4	4	-	100	17.7	B	Non-UPS Load for Instrument	01/02/05/06/11/12
15	D00	LP-MCC-P1701	0.4	Extension LV Switchgear in Manifold	M40	P-1701	M40	30	3×35	3C	35	-	-	300	36.0	A	Oil Sump Pump	01/02/05/06/07/13/14/15
16	~~D00~~	~~C-MCC-ESD~~	~~0.4~~	~~Extension LV Switchgear in Manifold~~	~~M20~~	~~Oil Sump Pump~~	~~M20~~	-	~~3×2.5~~	~~3C~~	~~3~~	-	-	~~50~~	~~15.3~~	~~E~~	~~IRP--ESD for Oil Sump Pump~~	-
17	~~D00~~	~~C-MCC-DCS~~	~~0.4~~	~~Extension LV Switchgear in Manifold~~	~~M25~~	~~Oil Sump Pump~~	~~M25~~	-	~~12×2.5~~	~~12C~~	~~3~~	-	-	~~50~~	~~23.5~~	~~E~~	~~IRP--DCS for Oil Sump Pump~~	-
18	D00	C-MCC-LCS	0.4	Extension LV Switchgear in Manifold	M25	LCS of P-1701	M25	-	10×2.5	10C	3	-	-	300	22.9	D	LCS for Sump Oil Sump Pump	01/02/05/06/07/13/14/15
19	D00	LP-UPS01-PDP02	0.4	110 VAC UPS Distribution Panel	M25	PDP02 in Control Room	M25	7	4×10	4C	10	-	-	30	22.1	B	PDP-02 in Control Room	01/02/05/06/11/12
20	D00	LP-PDP02-DCS01	0.23	PDP-02 in Control Room	M20	DCS System & Marshaling Panel	M20	1	2×4	2C	4	-	-	30	16	B	DCS system & Marshaling Panel	by Instrument
21	D00	LP-PDP02-DCS02	0.23	PDP-02 in Control Room	M20	DCS System & Marshaling Panel (Redundant)	M20	1	2×4	2C	4	-	-	30	16	B	DCS system & Marshaling Panel (Redundant)	by Instrument
22	D00	LP-PDP02-ESD01	0.23	PDP-02 in Control Room	M20	ESD System & Marshaling Panel	M20	0.7	2×4	2C	4	-	-	30	16	B	ESD System & Marshaling Panel	by Instrument
23	D00	LP-PDP02-ESD02	0.23	PDP-02 in Control Room	M20	ESD System & Marshaling Panel (Redundant)	M20	0.7	2×4	2C	4	-	-	30	16	B	ESD System & Marshaling Panel (Redundant)	by Instrument
24	D00	LP-PDP02-OPW	0.23	PDP-02 in Control Room	M20	Operator Workstation Marshaling Panel	M20	0.6	2×4	2C	4	-	-	30	16	B	Operator Workstation Marshaling Panel	by Instrument
25	D00	LP-PDP02-DCSW	0.23	PDP-02 in Control Room	M20	DCS Engineering Workstation	M20	0.6	2×4	2C	4	-	-	30	16	B	DCS Engineering Workstation	by Instrument
26	D00	LP-PDP02-ESDW	0.23	PDP-02 in Control Room	M20	ESD Engineering Workstation	M20	0.6	2×4	2C	4	-	-	30	16	B	ESD Engineering Workstation	by Instrument
27	D00	LP-PDP02-Print	0.23	PDP-02 in Control Room	M20	Printers	M20	0.6	2×4	2C	4	-	-	30	16	B	Printers	by Instrument
28	D00	LP-CH01-FACP01	0.024	DC Charger	M32	FACP System	M32	0.6	2×35	2C	35	35	-	50	25.2	B	FACP System	9/8/7/11/12
29	D00	LP-CH01-FACP02	0.024	DC Charger	M32	FACP System (Redundant)	M32	0.6	2×35	2C	35	35	-	50	25.2	B	FACP System (Redundant)	9/8/7/11/12