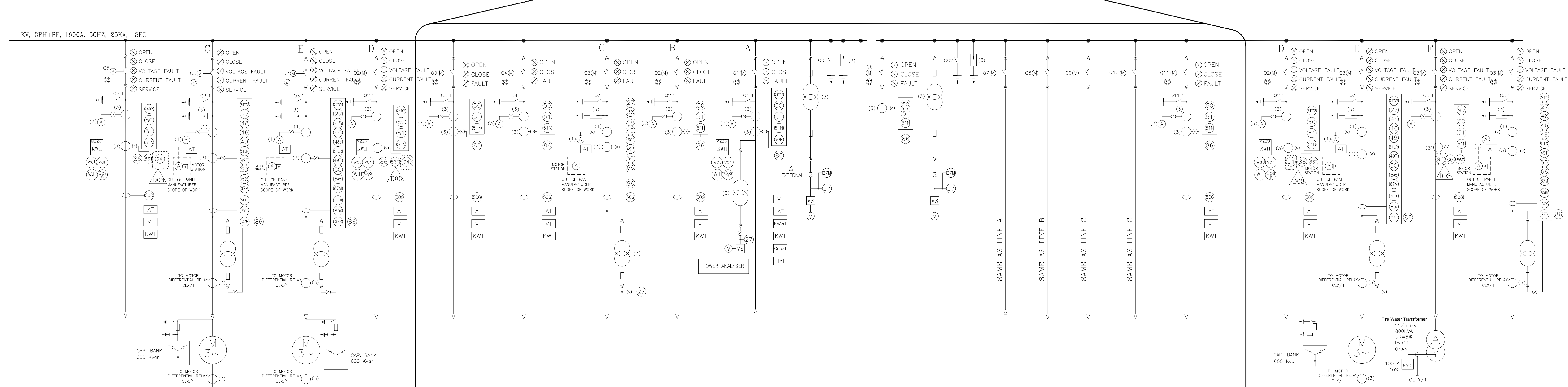


EXISTENT MV SWITCHGEAR EXPANSION

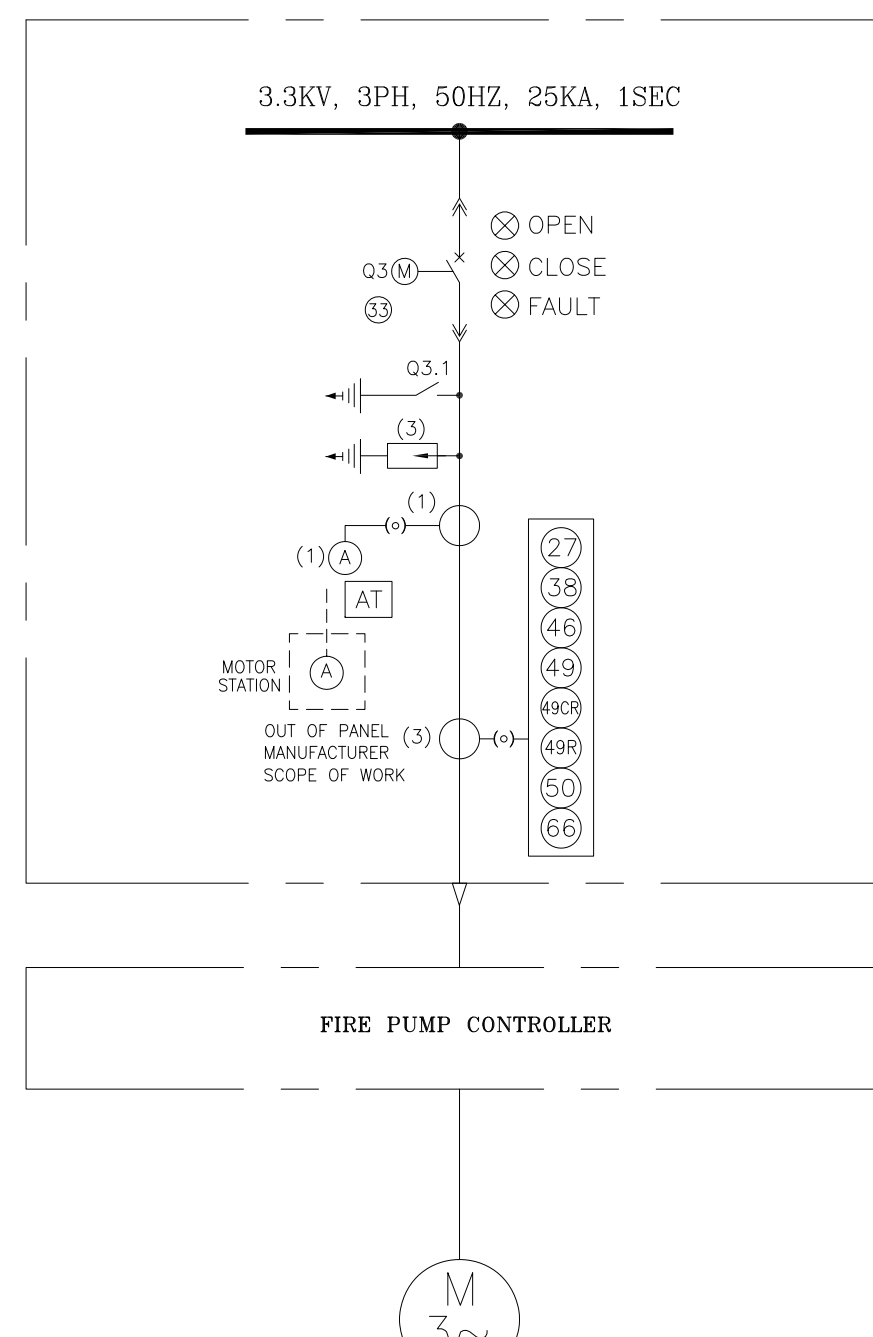
SINGLE LINE DIAGRAM

[illegible][illegible]

EXISTING

[illegible]

DESCRIPTION		SPARE
RATED CURRENT[A]		
CIRCUIT	TYPE	VACUUM
BREAKER	RATE[A]	6.50
EARTHING SWITCH[A]		6.50
SURGE ARRESTER [kV@10]		
C.T.	RATIO/VA CLASS	100/1 CORE1/15VA,CL1
V.T.	RATIO/VA CLASS	NOT REQUIRED
AMMETER	SCALE,SIZE,CLASS	0-500A/90°/PM,CL1.5
WATT-METER	SCALE,SIZE,CLASS	-----
WATT-METER	SCALE,SIZE,CLASS	-----
ENERGY-METER	SCALE,SIZE,CLASS	-----
TRANSFORMER(4-20VA)		NOT REQUIRED
FUSE RATING	LV SIDE [A]	243.3kW
	HV SIDE [A]	24.611kW
SELECTOR SWITCH POSITION	OPERATION	APPROXIMATION (3POSITION(00-A))
CORE BLANK C.T.	RATIO/VA CLASS	60/1/5VA,CL1
CONDUCTOR VOLTAGE, (mm ²)		
POWER CABLE	TYPE	
	LENGTH(M)	
TESTING	C.T.	REQUIRED
TERMINAL	V.T.	REQUIRED
CATEGORY		C5



NOTE 3,4

NOTES

1. FOR CONTROL AND WIRING DIAGRAM CAPACITOR (C2, C3)
REFER TO DOC. NO. "BK-GCS-PECCO-120-EL-DG-0001"
 2. THE GCS-11-5WG BUSBAR WILL EXTEND IN BOTH SIDE & NEW
OUTGOING FEEDERS WILL BE CONSIDERED ON EXTENSION
 3. 800 KVA TRANSFORMER WILL POWER 3.3 KV BUS WHICH WILL SUPPLY
FIRE WATER PUMP.
 4. VOLTAGE & CURRENT SAMPLE FOR CAPACITOR BANKS OF COMPRESSORS
SHALL BE CONSIDERED BY VENDOR
 5. DIFFERENTIAL PROTECTION CURRENT TRANSFORMERS SHALL BE PROVIDED
FOR MOTORS ABOVE 1000 KW.
 6. PROTECTIONS CONSIST OF REQUIRED PROTECTIONS FOR POWER CABLE &
27R FUNCTION SHALL BE CONSIDERED IN 3.3KV PANEL.
 7. LOCKOUT RELAY SHALL HAVE FLAG.
- 

LEGEND



REFERENCES

ELECTRICAL LOAD LIST	BK-GCS-PEDCO-120-EL-LI-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR MV PANEL	BK-GCS-PEDCO-120-EL-DG-0001

ABBREVIATION

A	AMPERE
M	MOTOR
AS	AMMETER SWITCH
CT	CURRENT TRANSFORMER
HZ	HERTZ
IP	DEGREE OF PROTECTION BY ENCLOSURE
KA	KILO AMPERE
KV	KILO VOLT
KW	KILO WATT
MV	MEDIUM VOLTAGE
VS	VOLTMETER SWITCH
VI	VOLTAGE TRANSFORMER
KVA	KILOVOLT-AMPERE
KWH	KILOWATT-HOUR
VCB	VACUUM CIRCUIT BREAKER
ICS	TRIP COIL SUPERVISION
KVAR	KILOVAR
SWG	SWITCH GEAR

[illegible]

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PROJECT NO.:	971020	

EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):	BINAK OILFIELD DEVELOPMENT GENERAL				
  HIRGAN ENERGY – DESIGN & INSPECTION	 PETROIRAN DEVELOPMENT COMPANY PEDCO	DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

DRAWING TITLE:	NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED
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Existing MV Switchgear Expansion Single Line Diagram					APPROVED FOR CONSTRUCTION				BY:	DATE:	
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
NTS	A0	BK-GCS-PEDCO-120-EL-SL-0003	02 OF 02	D03	053-073-9184	F	2	P	709036	02 OF 03	D03

(VENDOR TITLE BLOCK)**

DRAWING TITLE:	Existent MV Switchgear Expansion Single Line Diagram
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