

CONTROL PANEL CP47

ANNUNCIATOR PANEL

MAIN FLOW PUMP
NO. 2 MOTOR
WINDING TEMP/
MOISTURE HIGH

MAIN FLOW
PUMP NO. 2
FAILURE

MAIN FLOW
PUMP NO. 2
O/L TRIP

FLOAT CONTROL

MFP-2
CALLED
FOR

PLC-SP47-03 (NOTE 3)

MFP-2
FLOW

MANUAL
MODE

AUTO
MODE

PUMP
MOISTURE
DETECTION

MFP-2
HIGH TEMP/
MOISTURE
PROTECTION
IN BYPASS
MODE

MOTOR
OVERTEMP
DETECTION

SCADA
PUMP
CALL

MFP-2
CALLED
FOR

PUMP
NOT
RUNNING

PUMP
RUNNING

RVSS
O/L

RVSS
FAIL

MOTOR
CURRENT

CIRCUIT
BREAKER
TRIPPED

FI

HN

HN

MI

HN

TI

YD

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YB

YN

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MY

HS

TY

TLA

MLA

YL

YY

YY

YLY

MLA

MA

IT

YYF

HS

HS

HLV

KQI

YQI

HMS

KS

II

HS

HMS

M/O/A
IN MAN
MODE

M/O/A
IN OFF
MODE

MFP-2
HIGH TEMP/
MOISTURE
PROTECTION
BYPASS

ETM

START
COUNTER

TIMED
START

3 PH
AMMETER

4 POS
SWITCH

RESET
PUSH-
BUTTON

MAIN FLOW PUMP NO. 2 STARTER (MCC-P47) (NOTE 2)

CS-MFP2 (NOTE 2)

YLR

HMS

HMS

HMS

PUMP
RUNNING

START

STOP

JOG

1

MAIN FLOW PUMP NO. 2 P&ID DRAWING

NOTES:

- SEE SHEETS GI-1 AND GI-2 FOR INSTRUMENTATION SYMBOL LISTS, ABBREVIATIONS, AND GENERAL NOTES.
- REFER TO SHEET E-3 FOR PUMP CONTROL WIRING DIAGRAM.
- REFER TO SPECIFICATION SECTION 40 94 23 FOR ADDITIONAL PUMP ALTERNATOR CONTROLLER REQUIREMENTS & SEQUENCE OF OPERATION.
- PUMP METER CONTROL PANEL INCLUDES A METER FOR EACH OF THE MAIN FLOW PUMPS AND THE LOW FLOW PUMP. REFER TO SHEETS I-3, I-5, I-6, AND ID-4 DETAIL 1 FOR ADDITIONAL INFORMATION.
- PROVIDE INTRINSICALLY SAFE RELAYS AND BARRIERS FOR CONTROL AND INSTRUMENT CABLES RUN FROM HAZARDOUS LOCATIONS INTO CONTROL PANELS, AS REQUIRED TO INSURE SAFE OPERATION IN HAZARDOUS LOCATIONS.