NOTE:
FOR GENERAL NOTES AND REFERENCE DRAWINGS, SEE SHEET 1.

+28VDC SUPPLY FROM NAVIGATION EQUIP SHOP PWR PNL GROUP (SHEET 2)

120V 3Ø 400 CPS
VOLTAGE REGULATION ±.5%
FREQUENCY REGULATION ±.5%
FROM NAVIGATION SHOP PWR PNL GROUP
(SEE SHEET 2)

FIRE CONTROL SHOP PWR PNL GROUP

120V 3Ø 400 CPS

WORKBENCH 8 (FIRE CONTROL SHOP)	(1.0 KW-1Ø)
WORKBENCH 6 (FIRE CONTROL SHOP)	(1.0 KW-1Ø)
WORKBENCH 7 (FIRE CONTROL SHOP)	(1.0 KW-1Ø)
ELECTRONIC WORKBENCH 9 (FIRE CONTROL SHOP)	(1.0 KW-1Ø)
ELEX. WORKBENCH 11 (MODULE CHECKOUT SHOP)	(1.0 KW-1Ø)
ELEX. WORKBENCH 12 (MODULE CHECKOUT SHOP)	(1.0 KW-1Ø)
TEST SET MK 352 (MATS) (MODULE CHECKOUT SHOP)	(1.05 KW-3Ø)
IC TEST SWITCHBOARD (FIRE CONTROL SHOP)	(0.92 KW-1Ø)
MOTS POWER PANEL	(4.0 KW-3Ø)
ELECTRONIC WORKBENCH 10 (FIRE CONTROL SHOP)	(1.0 KW-1Ø)

120V 3Ø 60 CPS

WORKBENCH 6 (FIRE CONTROL SHOP)	(3 KW-1Ø)
WORKBENCH 7 (FIRE CONTROL SHOP)	(3 KW-1Ø)
ELEX. WORKBENCH 11 (MODULE CHECKOUT SHOP)	(3 KW-1Ø)
ELEX. WORKBENCH 12 (MODULE CHECKOUT SHOP)	(3 KW-1Ø)
TEST SET MK 352 (MATS) (MODULE CHECKOUT SHOP)	(1.5 KW-3Ø)
MOTS PWR PANEL (MODULE CHECKOUT SHOP)	(1.6 KW-1Ø)
ELEX. WORKBENCH 10 (FIRE CONTROL SHOP)	(3 KW-1Ø)
ELEX. WORKBENCH 9 (FIRE CONTROL SHOP)	(3 KW-1Ø)
WORKBENCH 8 (FIRE CONTROL SHOP)	(3 KW-1Ø)

450V 3Ø 60 CPS

(23.1 KW-3Ø)

(3) 10 KVA 1Ø 450/120V, 60~ TRANSFORMERS

450V 3Ø 60 CPS
VOLTAGE REGULATION ±5%
FREQUENCY REGULATION ±5%
VOLTAGE SENSED AT SHIPS SERVICE SWBD OR AT EMERGENCY SWBD

FROM SHIP SERVICE SWBD

(SEE REF. 2)

ABT

FROM EMERGENCY SWBD

(2.4 KW 3Ø) → 1.7 KW RECTIFIER 5
+28V DC
REGULATION ±1%
RIPPLE VOLTAGE 1% RMS
VOLTAGE SENSED AT 28VDC BUS (FC SHOP PWR PNL GROUP)

(2.4 KW 3Ø) → 1.7 KW RECTIFIER 4
-29.5V DC
REGULATION ±1%
RIPPLE VOLTAGE 1% RMS
VOLTAGE SENSED AT -29.5 POWER BUS (FC SHOP PWR PNL GROUP)

14.0 KW 3Ø → 10 KW RECTIFIER
28V DC
REGULATION ±2%
RIPPLE VOLTAGE 1.5 V P-P
VOLTAGE SENSED AT RECTIFIER TERMINALS

(49.7 KW 3Ø)
(7.0 KW-3Ø)
(3) 25 KVA-1Ø TRANSFORMERS 450/120V, 60~

120 VOLT, 3Ø, 60~ SUPPLY TO NAVIGATION EQUIP. SHOP PWR PNL GROUP (SHEET 2)

450V, 3Ø, 60~ SUPPLY TO FC 5KW 400~ MG SET (SUPPLIES PWR TO MOTS ONLY)
(SEE REF 1)

120V 3Ø 400 CPS
VOLTAGE REGULATION ±0.5%
FREQUENCY REGULATION ±.5%
FROM FC 5KW 400 CPS MG SET, VOLTAGE SENSED AT MOTS PWR PNL (SEE REF 1)

CKT. BKR. PANEL (REF 1)

TO MOTS PWR PANEL (MODULE CHECKOUT SHOP) (4.0 KW 3Ø)

28V DC SUPPLY TO NAVIGATION EQUIP SHOP PWR PNL GROUP (SHEET 2)

FIRE CONTROL SHOP PWR PNL GROUP

+28 V DC

+28 V DC

-29.5 V DC

MOTS POWER PANEL (MODULE CHECKOUT SHOP)	(1.0 KW)
ELECTRONIC WORKBENCH 10 (MODULE CHECKOUT SHOP)	(0.5 KW)
TEST SET MK 352 (MATS) (MODULE CHECKOUT SHOP)	(0.14 KW
WORKBENCH 7 (FIRE CONTROL SHOP)	(0.5 KW)
WORKBENCH 6 (FIRE CONTROL SHOP)	(0.5 KW)
WORKBENCH 8 (FIRE CONTROL SHOP)	(0.5 KW)
ELECTRONIC WORKBENCH 9 (FIRE CONTROL SHOP)	(0.5 KW)
ELECTRONIC WORKBENCH 11 (MODULE CHECKOUT SHOP)	(0.5 KW)
ELECTRONIC WORKBENCH 12 (MODULE CHECKOUT SHOP)	(0.5 KW)
MOTS POWER PANEL (MODULE CHECKOUT SHOP)	(1.0 KW)
WORKBENCH 6 (FIRE CONTROL SHOP)	(0.5 KW)
WORKBENCH 7 (FIRE CONTROL SHOP)	(0.5 KW)
WORKBENCH 8 (FIRE CONTROL SHOP)	(0.5 KW)

BUS TRANSFER SWITCH

BUS TRANSFER SWITCH

+28 VDC (1.0 KW)
120V 1Ø 60~ (1.6 KW, 1Ø)
120V 3Ø 400~ (4.0 KW-3Ø)
→ MOTS MK 412 (MODULE CHECKOUT SHOP)

MODULE CHECKOUT SHOP PWR PNL

DEPARTMENT OF THE NAVY — BUREAU OF SHIPS — WASHINGTON, D. C.

SUBMARINE TENDER AS-34
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