12177-EE-M01D-6

2NJS-US3 (TURBINE BLDG WEST) NORMAL LOAD CENTER (EE-1A) BUS C

BUS B

2NHS-MCC009 (NORMAL SWGR BLDG) NORMAL MCC (EE-1A1)

BUS A

BUS B

2NJS-US4 (SWITCHGEAR ROOM) NORMAL LOAD CENTER (EE-1A) BUS C

BUS B

2WPS-PNL300 TB WEST (EL 277'-6") 600V 3PH WLD DIST PNL (EE-18E)

2NJS-PNL300 TB WEST (EL 277'-6") 600V 3PH PWR DIST PNL (EE-18D)

2LAT-PNL300 TB WEST (EL 277'-6") 600V 3PH LIGHTING (EE-18B)

2NJS-PNL401 NORM SWGR BLDG (EL 261'-0") N.A. 600V 3PH PWR DIST PNL (EE-18D)

2LAS-PNL400 NORM SWGR BLDG (EL 261'-0") 600V 3PH LIGHTING (EE-18F)

2NJS-PNL400 NORM SWGR BLDG (EL 261'-0") 600V 3PH PWR DIST PNL (EE-18D)

2WPS-PNL400 SWGR ROOM (EL 261'-0") 600V 3PH WLD DIST PNL (EE-18E)

2NJS-PNL402 NORM SWGR RM (EL 261'-0") N.A. 600V 3PH PWR DIST PNL

TO 2NHS-MCC004(1) (EE-M01A)

TO 2NHS-MCC004(2) (EE-M01A)

TO 2SCI-...100 THIS DWG

TO 2V88-TRS1 THIS DWG

TO 2V88-TRS1 THIS DWG

TO 2V88-TRS1 THIS DWG

50KVA AUTO XFMR 2WPS-X30 2WPS-X12 2WPS-X32 2WPS-X33 2WPS-X34 2WPS-X36 2WPS-X37 2WPS-X38 2WPS-X39

2SCA-PNL300 TURB BLDG (EAST) (EL 277'-6")

TO POWER OUTLETS

2SCA-XJ300

2SCA-XD301

2IHS-XD003

2CND-XD300

2SCA-PNL301 TURB BLDG (WEST) (EL 259'-0")

2IHS-PNL003 TURB BLDG (EL 259'-0")

NORM MISC AC CONT CKTS

2CND-BKR3 DEMINERALIZER AREA (EL 259'-0")

TO 2CND-1PNL5 (CKT "B")

TYP LTG XFMR & PNL

NORM LTG CKTS

2LAT-PNLN01 2LAT-PNLN03 2LAT-PNLN05 2LAT-PNLN07 2LAT-PNLN10 2LAT-PNLN11 2LAT-PNLN12 2LAK-PNLN04

2RPM-MG1B

25 3PH FLYWHEEL 0

18.75KVA 1PH 120V (C72-S001B)

2RPM-PNL1B (C72-P002)

SEE NOTE 2

NORM SWGR BLDG EL 327'-0"

2RPM-BKR1B NORMAL SWGR EL 237'-0"

2LAC-PNLN01 2LAC-PNLN02 2LAC-PNLN03 2LAC-PNLN04 2LAC-PNLN05 2LAC-PNLN06 2LAC-PNLP07 2LAC-PNLN08 2LAO-PNLN01 2LAY-PNLN01 2LAO-PNLN02

NORM LTG CKTS

2SCA-PNL404 CONTROL RM (EL 281'-0")

2SCA-PNL402 (EAST CORRIDOR) (EL 261'-0")

2SCA-PNL407 CONTROL BLDG (EL 261'-0")

2SCA-PNL401 NORM SWGR BLDG (EL 261'-0")

2NPS-BKR1 NORMAL SWGR EL 261'-0" 70A

2NPS-BKR3 NORMAL SWGR EL 261'-0" 70A

2SCA-PNL403 CONTROL RM (EL 281'-0")

2SCA-PNL405 NORM SWGR BLDG (EL 261'-0")

2SCA-XD408

2SCA-XD400 2SCA-XD404 2SCA-XD402 2SCA-XD407 2SCA-XD401 2NPS-XD400 2NPS-XD401 2SCA-XD403 2SCA-XD405

NORM MISC AC CONT CKTS

NORM PCCC CONT CKTS

2NPS-SWG001 2NPS-SWG003

NORM MISC AC CKTS

50KVA AUTO XFMR 2WPS-X40, 2WPS-X41 2WPS-X42, 2WPS-X43 2WPS-X45, 2WPS-X46 2WPS-X47, 2WPS-X48 2WPS-X49, 2WPS-X18

TO POWER OUTLETS

2V88-XRC603 25KVA,1PH 600-120V

2NJS-PNL600 ALTERNATE 600V (EE-M01F)

2V88-PNL301 (NORMAL SWGR BLDG) (EL 237'-0") 600V 3PH PWR DIST PNL

MISC LOADS NO XFMRS

2NJS-PNL301 TB WEST (EL 288'-0") 600V 3PH PWR DIST PNL

2V88-XD501 600V-208Y/120V 112.5KVA.3PH

2V88-XRC501 208Y/120V-208Y/120V 75KVA.3PH

TO 2NJS-US5 (EE-M01G)

2YJJ-UPS1C NORMAL SWGR BLDG EL 237'-0" 75KVA

UPS

2BYS-SWG001A 125VDC SWGR EE-M01G

2LAT-PNL017 208Y/120V.3PH

ESSENT LTG CKTS

2V88-BKR1 NS EL 237'-0"

2V88-BKR2 NS EL 237'-0"

TO 2NJS-US3 (13A) THIS DWG

TO 2NJS-US4 (6A) THIS DWG

2V88-TRS1 AUTOMATIC TRANSFER SWITCH (NORMAL SWGR BLDG) EL 237'-0" 3PH 400A

2V88-PNL301 (NORMAL SWGR BLDG) (EL 237'-0") 600V 3PH PWR DIST PNL

2RPM-PNLB100 CONTROL BLDG EL 237'-0" 120V DISTR PNL

2RPM-ACB1B EPA

2RPM-ACB2B EPA

CONTROL BLDG EL 237'-0"

2CEC-PNL611 TERM CAB 709 (BLUE) (SS4)

2CEC-PNL609 TERM CAB 707 (GREEN) (SS3)

2CEC-PNL609 TERM CAB 708 (ORANGE) (SS1)

2CEC-PNL611 TERM CAB 706 (YELLOW) (SS2)

TO "B" SCRAM PILOT SOLENOIDS

2LAR-PNLU02 2LAC-PNLU02 2LAT-PNLU05 2LAM-PNLU01 2LAR-PNLU01 2LAT-PNLU02 2LAT-PNLU04 2LAN-PNLU01 2LAR-PNLU05

2SCI-XD220 600-120V.1PH 50KVA RADWASTE CONTROL ROOM (EL 279'-0")

2SCI-RL02 1PH.33KVA 120-120V

2SCI-XD180 600-120V.1PH 50KVA RADWASTE CONTROL ROOM (EL 279'-0")

2SCI-RE01 (1PH.33KVA

2SCI-SWS1 RADWASTE CONTROL ROOM (EL 279'-0") 400A MANUAL BYPASS

2SCI-TRS1 AUTO XFER SWITCH RADWASTE CONT RM 1PH.400A

TO 2NJS-US9 (5D) (EE-M01C)

TO 2NJS-US4 (6A) THIS DWG

NOTE 4

2V88-XRC503 25KVA.1PH 600-120V

2NJS-PNL500 ALTERNATE 600V (EE-M01F)

2LAT-PNL100 NORMAL 600V (EE-M01C)

2BYS-SWG001C BACKUP 125VDC (EE-M01G)

UPS 2V88-UPS3A 10KVA NORM SWGR BLDG (EL 237'-0")

2V88-BKR3A

2V88-UPS3B 10KVA NORM SWGR BLDG (EL 237'-0")

2V88-BKR3B

2BYS-SWG001B BACKUP 125VDC (EE-M01G)

2V88-XD500 600V-208Y/120V 112.5KVA.3PH

2V88-XRC500 208Y/120V-208Y/120V 75KVA.3PH

2V88-UPS1A NORMAL SWGR BLDG EL 237'-0" INST & CONT 75KVA

2BYS-SWG001A 125VDC SWGR (EE-M01G)

TO 2NJS-US5 (EE-M01G)

2V88-XD601 600V-208Y/120V 112.5KVA.3PH

2V88-XRC601 208Y/120V-208Y/120V 75KVA.3PH

2V88-UPS1B NORM.SWGR.BLDG. EL 237'-0" 75KVA

2BYS-SWG001C 125VDC SWGR (EE-M01G)

TO 2NJS-US6 (EE-M01G)

2V88-XD602 600V-208Y/120V 112.5KVA.3PH

2V88-XRC602 208Y/120V-208Y/120V 75KVA.3PH

2V88-UPS1C CONTROL BLDG EL 214'-0" 75KVA

TO 2NJS-US6 (EE-M01G)

2V88-PNL300 CONTROL BLDG EL 261'-0" 208Y.3PH DISTR PNL

2V88-PNLB111 208Y/120V NORM.SWGR.BLDG. BAT.RM.4A EL 237'

2V88-PNLB102 208Y/120V CONTROL BLDG EL 306'-0" DIV II SIDE

2V88-PNLB101 208Y/120V CONTROL BLDG EL 306'-0" DIV I SIDE

2LAC-PNLU04 208Y/120V.

NORM.SWGR.BLDG. EL 261'-0"

2V88-PNLA107 208Y/120V RADWASTE CONTROL ROOM EL 279'-0"

2V88-PNLB102 208Y/120V RADWASTE BLDG EL 279'-0"

2V88-PNLB108 208Y/120V TURBINE BLDG EL 277'-0"

2V88-PNLB109 208Y/120V ELECTRICAL BAY EL 261'-0"

2V88-PNLC100 208Y/120V CONTROL BLDG EL 261'-0"

2V88-PNLC101 208Y/120V CONTROL BLDG EL 261'-0"

2V88-PNLC102 208Y/120V CONTROL BLDG EL 261'-0"

2V88-PNLC103 208Y/120V HEALTH PHYSICS EL 306'-0"

2SCI-PNLA105 120V AUX BLR BLDG EL 261'-0"

2SCI-PNLB102 120V CONTROL ROOM DIV I AREA

2SCI-PNLB101 120V CONTROL ROOM DIV I AREA

2SCI-PNLA103 120V TURBINE BLDG VENT RM EL 306'-0"

2SCI-PNLA101 120V CONTROL ROOM DIV I AREA

2SCI-PNLA102 120V CONTROL ROOM DIV II AREA

2SCI-PNLC104 120V STBY GAS TREATMENT (EL 289'-0")

2SCI-PNL103 120V TURBINE BLDG VENT RM EL 306'-0"

2V88-ISLXA107

2V88-ISLXC100

2V88-ISLXC102

2V88-ISLXC101

2V88-ISLXC103

2V88-XB107

2V88-XB108

2V88-XB109

208V 3PH,4W 25KVA

208V/120V 3PH,4W 30KVA

2SCI-PNL100 120V.1PH NORMAL(RELIABLE) INST & CONTROL BUS RADWASTE CONTROL ROOM (EL 279'-0")

2V88-PNLA100 (EL 237'-0")

120V DIST PNL

2V88-PNLA110 120V CONT BLDG EL 237'-0"

(D4) BLUE/WHITE RPS TRIP CHANNEL B2

2V88-PNLA105 120V AB SQ. (EL 249'-0"

(D1) GREEN OUTBOARD MSLIV LOGIC & TRIP SOLENOID A CHANNEL 1

2V88-PNLA136 120V AB SQ. (EL 249'-0"

(D2) YELLOW/WHITE INBOARD MSLIV LOGIC & TRIP SOLENOID B CHANNEL 2

2V88-PNLB105 120V AB SQ. (EL 249'-0"

(D1) GREEN/WHITE OUTBOARD MSLIV LOGIC & TRIP SOLENOID B CHANNEL 1

2V88-PNLB106 120V AB SQ. (EL 249'-0"

(D2) YELLOW INBOARD MSLIV LOGIC & TRIP SOLENOID A CHANNEL 1

2V88-PNLA103 120V CONT ROOM DIV I AREA (RPS, NS4) & NMS

(D1) GREEN

2V88-PNLA104 120V CONT ROOM DIV II AREA (RPS, NS4) & NMS

(D2) YELLOW/WHITE RPS TRIP CHANNEL B1

(D3) ORANGE

2V88-PNLB113 120V CONT ROOM DIV I AREA (RPS, NS4) & NMS

(D2) YELLOW

2V88-PNLB104 120V CONT ROOM DIV II AREA (RPS, NS4) & NMS

(D4) BLUE

2V88-PNLB110 120V CONT BLDG EL 237'-0"

(D3) ORANGE/WHITE RPS TRIP CHANNEL A2

2SCA-PNL408 CONTROL BLDG EL 261'-0"

NORM MISC AC CKTS & PCCC UTILITY

PCCC UTILITY CKTS

CONTROL BLDG EL 237'-0"

2V88-PNLB103 120V CONTROL BLDG EL 237'-0"

2V88-PNLB107 120V CONTROL BLDG EL 237'-0"

UPS 2V88-UPS3B 10KVA NORM SWGR BLDG (EL 237'-0")

2V88-BKR3B

2V88-ACB1A EPA

2V88-ACB2A EPA

2V88-ACB1B EPA

2V88-ACB2B EPA

120V DIST PNL

NOTES:

1. (MAINTENANCE ONLY) MANUAL OPERATION LOCKED OPERATION IN EACH MODE NON-PARALLEL OPERATION.
2. ALL 600V PANEL MAIN BREAKERS ARE NON-AUTOMATIC.
3. FOR ABBREVIATIONS & OTHER NOTES SEE DWG.NO.12177-EE-M01A.
4. THESE XFMRS. HAVE A TAP SETTING OF (-)5% ON THE PRIMARY SIDE

APPROVED Lyle K. Gurl (LICENSED PROFESSIONAL ENGINEER, NO. 066633-1)

ALTERATION EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL

NUCLEAR SAFETY RELATED QA CAT I & II

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PLANT MASTER ONE LINE DIAGRAM NORMAL 600V & 120VAC

NINE MILE POINT NUCLEAR STATION-UNIT 2
NIAGARA MOHAWK POWER CORPORATION
STONE & WEBSTER ENGINEERING CORPORATION
CHERRY HILL, N.J.

CH DRAW.NO NUMBER 12177-EE-M01D-6

DESIGNED BY J.CHEESMAN CSDM CHKD BY T.BOHNER DRAWN BY J.MASSARELLI CHKD BY J.CHEESEMAN AREAS 1 LEVELS 1 THRU 5 WORK PKG 33A

ISSUE 0 ORIGINAL ISSUE FOR ENGINEERING ONLY PJC 7-23-82 PJH

SEE RECORD OF DRAWING CHANGES 12177-ACE-M01D-6

SEE RECORD OF DRAWING CHANGES 12177-BCE-M01D-5

SEE RECORD OF DWG CHANGES 12177-BCE-M01D-4

SEE RECORD OF DRAWING CHANGES 12177-BCE-M01D-3

SEE RECORD OF DRAWING CHANGES 12177-BCE-M01D-2

APERTURE CARD

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