237127A-M215

AP-2 RECORD PURP.

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AP-1 DWG. DISCR.

NOT COMPLETE DWG. DISCR.

HEATING STEAM SEE M605

1" TO TRAP SEE M605

CONTROL (TYP)

CONDENSER WATER BOX PRIMING EJECTOR

VENT TO ATMOSPHERE SEE M206

DRAIN TO TURBINE ROOM SUMP

15" TURBINE BLDG. STA. STANDPIPE SEE M 202 SHT 3 (H-8)

TURBINE BLDG. WALL

10'-0" X 10'-0" DISCHARGE TUNNEL

24" AUXILIARY BLDG. STANDPIPE SEE M 202 SHT 2 (H-9)

CONDENSER 1A

CONDENSER 1B

THROTTLING ORIFICE

WATER BOX VENTS (TYP)

THROTTLING ORIFICES

24" TURBINE BLDG. STANDPIPE SEE M1202 SHT 3 (H-3)

DRAIN FROM TANK AREA (AUX. BLDG.) SEE M209

TURBINE BUILDING BASEMENT COOLING SYSTEM - FOR CONT. SEE LOCATION H-2

SCREENHOUSE

CONTROL

HIGH

CIRCULATING WATER PUMP 1A

CIRC. WATER PUMP 1B

SCREEN HOUSE SUMP

SCREEN HOUSE SUMP PUMP 1A

SCREEN HOUSE SUMP PUMP 1B

3/4" DRAIN FROM CIRC. WATER INTAKE AIR SCREEN COMPRESSOR SYSTEM. SEE M213

POSSIBLE FUTURE WASTE DISPOSAL DISCH. LINE. SEE X-K100-131

FROM FISH SCREEN AIR COMPRESSOR & STATION AIR. SEE M213

CIRCULATING WATER FROM POSSIBLE FUTURE COOLING TOWER

CIRCULATING WATER TO POSSIBLE FUTURE COOLING TOWER PUMPHOUSE

3/4" DISCHARGE FROM CIRC. WATER PUMP MOTOR THRUST BEARING COOLERS SEE M 202 SHT 1 (C-12)

TRAVELING WATER SCREENS

RUNNING STOP

6" HYDRAULIC BALANCE LINE (TYP.)

DISTRIBUTION PIPE

FOR FOREBAY LEVEL CONTROL SEE ENLARGED DIAGRAM

TO SCREEN WASH SOLENOID VALVES SV-33010, 33011, 33012, 33013

STARTS SCREEN MOTOR

DIFFERENTIAL HEAD CONTROL PANEL

CIRCULATING WATER INTAKE

RECIRCULATING LINE

AUXILIARY WATER INLET & MAN ACCESS OPENING

SEE M 202 SHT 1 (H-2, 4, 6-8)

SUBMERGED INTAKE CRIB (TYP)

AIR BUBBLER SYSTEM

FISH REARING POND WARM WATER PUMP PIT (120° CONC. PIPE)

RECIRCULATION & AUXILIARY INTAKE LINE

RECIRCULATING LINES FOR CONT. SEE LOC. H-6

SCREEN WASH & STRAINER DRAIN PIT

CIRCULATING WATER DISCHARGE

LAKE MICHIGAN

TURBINE BUILDING BASEMENT COOLING SYSTEM

FAN COIL UNIT 1C

FAN COIL UNIT 1D

CONDENSER 1A

RECIRCULATING WATER PUMP

RECIRCULATING WATER DEAERATION TANK

CIRCULATING WATER RADIATION MONITORING WATER PUMP

12" RECIRCULATING FROM 120° CIRCULATING WATER DISCHARGE. (SEE LOC. E-6)

10" TO INTAKE CRIB (SEE LOC. E-6)

RECIRCULATING WATER SYSTEM

PUMPS TRIPPED

TRIP CIRC. WTR PUMPS

DRAIN TO SCREENHOUSE SUMP

CIRCULATING WATER PUMPS FOREBAY LEVEL CONTROL

FLOW

TRAVELING SCREENS

STOP LOGS (REF.)

Note:
1) SEE M758 SERIES FOR ADDITIONAL INSTRUMENTS ON MAJOR COMPONENTS

REVISIONS

R AT G-94 & G-10 ADDED CIRCULATING WATER PUMPS POSITION LEVEL CONTROL DIAGRAM, DR. & CK. RE. 11-9-72 E.E.B. 11-13-72 2ND LEV REV 11-9-72 FILMED: 11-14-72

S AT A-8 ADDED VLV CW 18-1 & NOTE FOR AUSSIBLE PIPING REMOVAL DR. E.B. CK. RNL 4-2-73 (P.C.N. 73) 2ND LEV REV FILMED 4-17-73

T AT B-8 DELETED UNIONS FOR FLOW INDICATOR & LINE SHTL VLVS 34, AT C-6 ADDED 2" VENT & MW B-30 DR. E.B. CK. RNL 7-23-73 2ND LEV. REV. FILMED 8-31-73

U AT A-9 ADDED ROTO-METER FI-18266 & VALVES CW16-2 & CW18-2 IN ACCORD. WITH DESIGN CHANGE NO. M-100. DR. WAL. CK. R.E. 9-25-73 2ND LEV. REV. 10-16-73 FILMED 10-17-73

V AT A-8 REVISED ½" CONNS. FOR FI-18266 WERE ¼" SIZE DR. RE. CK. R.E. 10-30-73 EQ. CK. M. 10-30-73 2ND LEV REV. E.E.B. 11/15/73 FILMED 10-31-73

W AT M-6 ADDED REVISED RECIRC. WATER SYSTEM INCLUDING 36D. MONITORING PUMP DISCHARGE TANK AND VLVS CW 2-3, 2-6, 5-6, 8-6, 9-6, 10-3, 10-6 AND 20-1 IN ACCORD. W/DESIGN CHGE. NEM-181. DR. WAL. CK. RNL 11-8-73 2ND LEV REV. 11-19-73 FILMED: 11/20/73

X AT A-9 REVISED ROTAMETER FI-18266 INSTALLATION & ADDED VLV. CW21-1 PER "AS BUILT" DR. E.B. CK. RNL 2-7-74 2ND LEV. REV. 2/28/74 FILMED 3-11-74

Y AT G-7 ADDED DPI-18448 IN ACCORD. W/DESIGN CHG. No. 1-93. DR. TS. CK. RE. 9-17-75 DCN 3-19-76 2ND LEV. REV. DCD 9-17-75 FILMED 9-17-75

Z CORRECTED DPI 11654, WAS 18448

DRN: RAL 19/FEB/77
CHK'D: REED 25/FEB/77
APPR'D: REED 25/FEB/77
FILMED: 2-28-77

AA ADDED SKV & CONTEL SUPV. SET PER DCR 543
BY: RCL 5/APR/77
CHK'D: ASL 12/MAY/77
FILMED: 2-20-77
REPLACED TE'S No 13003, 13007, 13014, 13015 & 13013 WITH DUAL TE'S No 14100, 14036, 14037, 14038, & 14099 PER DCR 409
BY: RCL 5/APR/77
CHK'D: ASL 3/MAY/77
APP'D: ASL
FILMED:

AB ADDED TEMP EL 13003 PER AS-BUILT CONDITIONS
BY: JRG 25/JAN/78
CHK'D: R.W.E. 2-2-78
APP'D: R.W.E.
FILMED: 2-20-78

AC AT H-2 - ADDED TURBINE BUILDING BASEMENT COOLING SYSTEM. PER DCR 644.
DRN: W.J.SPICE 3-6-78
CHK'D: WAW 3/MAR/78
APP'D: WAW 3/MAR/78
FILMED:

- DCR 904 C.M. PLETED, SEE REV AA
BY: RCL 30/MAR/78
CHK'D: ASL 30/MAR/78
APP'D:
FILMED: 4-4-78

AD ADDED SKV & CONTEL SUPV. SET PER DCR 543
BY: RCL 5/APR/77
CHK'D: ASL 12/MAY/77
FILMED: 2-20-77
REPLACED TE'S No 13003, 13007, 13014, 13015 & 13013 WITH DUAL TE'S No 14100, 14036, 14037, 14038, & 14099 PER DCR 409
BY: RCL 5/APR/77
CHK'D: ASL 3/MAY/77
APP'D: ASL
FILMED:

AE ADDED TEMP EL 13003 PER AS-BUILT CONDITIONS
BY: JRG 25/JAN/78
CHK'D: R.W.E. 2-2-78
APP'D: R.W.E.
FILMED: 2-20-78

AF DCR 1365 COMPL. SEE REV AN-1
APP'D: DFS 7-27-83
FILM'D (WPS) 8-11-83

AG REVISED PER DCR 1365 COMPL. SEE REV AN-1
APP'D: DFS 7-27-83
FILM'D (WPS) 8-23-83

AH DCR 1365 COMPLETE SEE REV. AG-1-1
APP'D: DFS. 7-27-83
FILM'D (WPS) 8-23-83

AJ DWG DISCR. SEE REV AH-1
APP'D: J.G. 9-28-83
FILM'D (WPS) 9/NOV/83

AK-1 REVISED PER "DRAWING DISCREPANCY" BY MTS 3/JAN/86
CHK'D: [illegible] 7/JAN/86

AK DWG. DISCR. COMPL. SEE REV AK-1
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/JAN/86

AL-1 REVISED RECIRCULATING WATER SYSTEM PER D.C.S. SEE BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AL DWG DISCR. COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AM-1 REVISED PER DCR 1365 EQUIPMENT NO'S CHOSEN (WPS) + REVISIONS PER DCR BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AM DCR 1365 COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AN-1 REVISED PER DCR 1365 EQUIPMENT NO'S CHOSEN (WPS) + REVISIONS PER DCR BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AN DCR 1365 COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AP DCR 1365 COMPL. SEE REV AN-1
APP'D: DFS 7-27-83
FILM'D (WPS) 8-11-83

AQ RECORD DWG. COMPLETE SEE REV AP-1
APP'D: DFS. 7-27-83
FILM'D (WPS) 8-23-83

AR-1 DWG DISC. CORR'S D-5 ADDED TI 12001 & TI 12002, PI 11004 & TI 11005 ADDED W-H ADDED NOTE
BY: KNOPE 9-15-83
CHK'D: S.P. 9-16-83

AS DWG DISC. SEE REV AR-1
APP'D: J.G. 9-28-83
FILM'D (WPS) 9/NOV/83

AT-1 REVISED PER "DRAWING DISCREPANCY" BY MTS 3/JAN/86
CHK'D: [illegible] 7/JAN/86

AT DWG. DISCR. COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AU-1 REVISED PER DCR 1365 EQUIPMENT NO'S CHOSEN (WPS) + REVISIONS PER DCR BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AU DCR 1365 COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AV-1 REVISED PER DCR 1365 EQUIPMENT NO'S CHOSEN (WPS) + REVISIONS PER DCR BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AV DCR 1365 COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AW-1 REVISED PER DCR 1365 EQUIPMENT NO'S CHOSEN (WPS) + REVISIONS PER DCR BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AW DCR 1365 COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

AX-1 REVISED PER DCR 1365 EQUIPMENT NO'S CHOSEN (WPS) + REVISIONS PER DCR BY: JEHREN 6/AUG/86 CHK'D: 7/AUG/86

AX DCR 1365 COMPL. SEE REV AK-1 & 2
APP'D: WAW 7/JAN/86
FILM'D (WPS): 7/AUG/86

237127A-M215

DESIGN SECTION APPROVALS

SECTION	INITIALS	DATE
ELECTRICAL	MM	11/JULY
ELEC. CONTROL	—	—
LIGHTING	—	—
MECHANICAL	—	—
INSTRUMENT	HL	9-14-84
MON. PLG. & VTR.	FF	11-20-84
VTR. ANAL. & DISP.	—	—
ENCLOSED	LS	10-11-84
INTERABLE	KMK	10-11-84
STRUCTURAL	—	—
REFRIGERATION	KT	12-18-84

WISCONSIN AGENT LAWRENCE E. NEUHART, JR. E-11224 GEN ELEC. ILLINOIS 12/31/85 PROFESSIONAL ENGINEER SEAL

FUNCTIONAL DESCRIPTION DIAGRAM
237127A-M720

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR POWER PLANT - UNIT NO. 1.
CARLTON, KEWAUNEE COUNTY, WISCONSIN

FLOW DIAGRAM
CIRCULATING WATER SYSTEM

Designed By Pioneer Service & Engineering Co. Chicago

DRAWN	DESIGNED	AED
L.J.F. 12-15-67		R.W.E. 2-20-78
SCALE NONE	CHECKED R. J. E. 11-5-68	
APPROVED R.E. Newhart 12/11/69	PROJECT & DWG. NO. 237127A-M215	SHT 1 OF 1 AQ

237127A-M215

TI APERTURE CARD

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