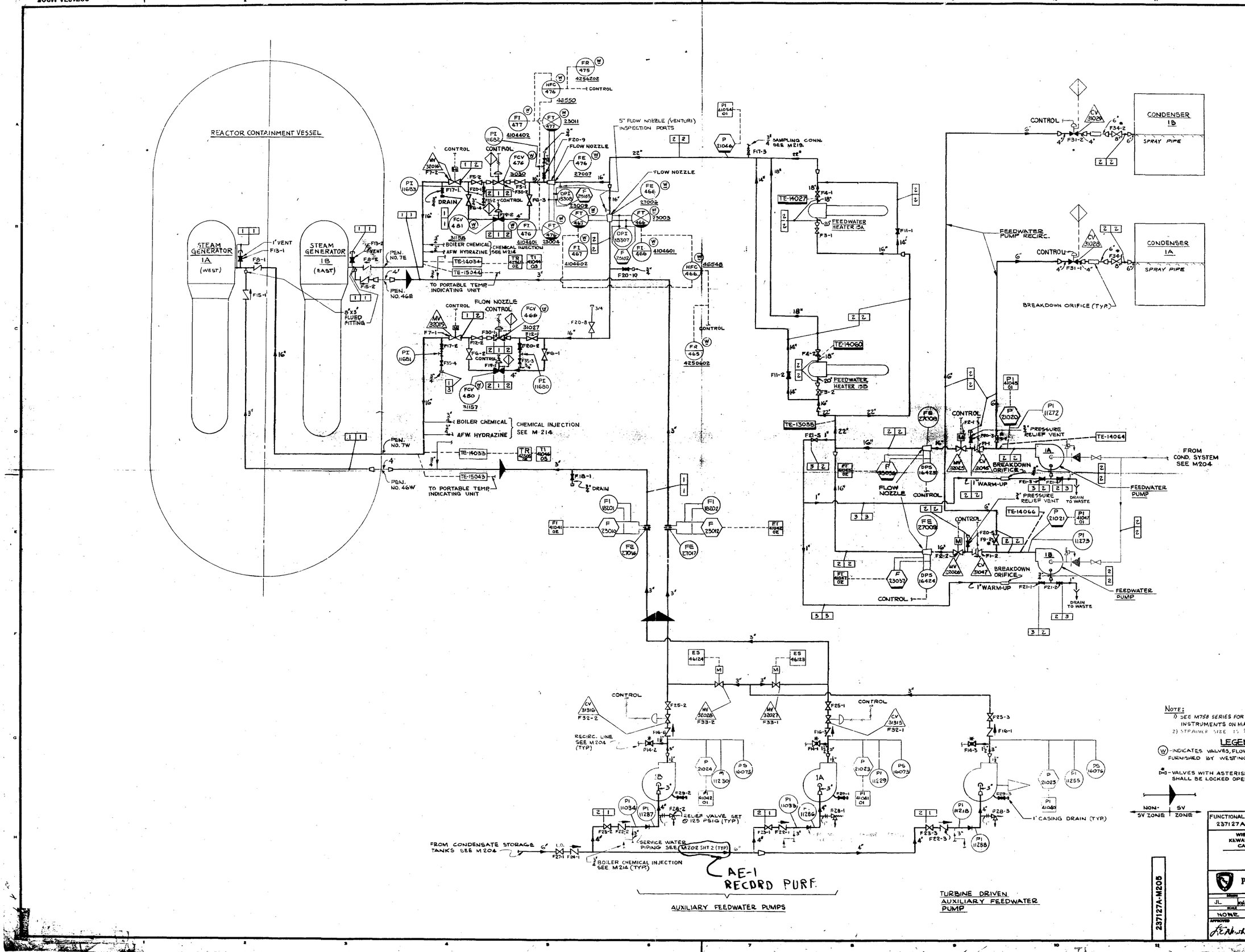

NOTE:
1) SEE M758 SERIES FOR ADDITIONAL INSTRUMENTS ON MAJOR COMPONENTS
2) STRAINER SIZE IS 1/8 INCH.

LEGEND
(W) - INDICATES VALVES, FLOW NOZZLES & INSTRUMENTS FURNISHED BY WESTINGHOUSE APD.
* - VALVES WITH ASTERISK SHALL BE LOCKED OPEN

REVISIONS

L	AT A-5 INSTR NO. 46550 WAS 4501201 AT B-1 INSTR 46543 WAS 4501200 DR. KJD CK. RE. 11-20-72 FILMED: 1-2-73
M	AT A-11 & B-1 CHGD VA. NO. FS4-2 WAS F10-2 AND F34-1 WAS F10-1 & LINE SIZE 6" WAS 4" DR. WAL. CK. RE. 2-13-73 2ND. LEV. REV. FILMED
N	AT B-5 REVISED 22" AND 16" PIPING & RELOCATED 3/4" VENT VA. F20-9 DOWNSTREAM OF FLOW NOZZLE NO. 476 TO AGREE W/PHYSICAL DIMS. AT C-5 DELETED 3/4" VENT VALVE F20-5 & DRAIN VALVE F20-7. DR. WAL. CK. RE. 3-9-73 FILMED 3-21-73
D	AT F-7 VALVES F33-1 & F33-2 WERE SHOWN NORMALLY CLOSED DR. RWJ CK. RWL 4-24-73 FILMED 5-2-73
Q	AT F-4 & F-8 ADDED 1" PROTECTION PIPE INLETS TO 3" AUX. FEEDWATER LINES. DR. WAL. CK. RE. 6-25-73 FILMED 7-6-73
R	AT D-10 CHGD. TE-14064 WAS TI-12099 & AT E-10 CHGD. TE-14066 WAS TI-12099. IN LEGEND CORD. W/DESIGN CHG. NO. T-74 DR. T.S. CK. RE. 9-11-75 2ND. LEV. REV. FILMED 9-26-75
S	AT C-4 & D-8 ADDED REF. TO PORTABLE TEMP. INDICATIVE UNIT FOR TE-15044 & TE-15043 IN ACCORD. W/ DESIGN CHG. NO. E-33. DR. T.S. CK. RE. 10-27-75 2ND. LEV. REV. FILMED: 11-20-75
T	A. H-6, H-7 & H-9 DELETED PERMANENT STRAINERS IN AUX. FEED WATER PUMPS SUCTION VALVES PER "AS BUILT" DR. T.S. CK. RE. 11-19-75 REV. 11-20-75 2ND. LEV. REV. FILMED 11-20-75
U	AT B-4, D-4 & H-6 CHG'D NOMEL PIB DCR #324 (KS-P-5069). DR. RR. CK. RS. 8-5-76 APP'D: E.R. GASSER FILMED: 9-13-76
V	AT B-5 & B-6 ADDED 5" INSPECTION PORTS PER DCR 489 BY: RGL 14/MAR/77 CHK'D: J.T. LOUGEER APP'D: D.E. WEINBERG FILMED: 4-11-77
W	REVISED PER DCR 489 "AS-BUILTS" BY: RGL 11/AUG/77 CHK'D: WAW 25/AUG/77 APP'D: WAW FILMED: 8-30-77
X	ADDED 2nd ISOL. VALVE & PI ON EACH SIDE OF VALVES FW30-1 & FW30-2 PER DCR 664 BY: RGL 7/OCT/77 CHK'D: DEW 5/DEC/77 APP'D: DEW FILMED: 12-13-77
Y	ADDED L.O. FOR VLV F27-1 & ADDED VALVE F20-3 PER "AS BUILT" DWN: RD 2-6-81 CHK'D: JKS 2-6-81 APP'D: RWL 3-9-81 FILMED: 3-17-81
Z	DWG DISC COMP. SEE REV. APPD USA 1-8-13 FILMD DDG 7-15-53
Z-1	DWG DISC CO-ORD 6-12 ADDED NOTE BY: KNOPE 9-16-83 CHK'D: S.P. 9-16-83
AA	DWG. DISC. COMP. SEE REV Z-1 APP'D: J.G. 9-28-83 FILMD(WPS) 9/14/83
AB	ADDED FLANGE IN PIPING PER DCR 1597 BY: TCL 4-29-85 CHKD: J.M. 4-29-85
AC	[illegible]
AD	[illegible]
AD-1	[illegible]
AE	[illegible]
AE-1	[illegible]
AF	RECORD DWG COMP. SEE REV AE-1 APP'D: GB 11-18-86 FILMED (WPS) 11-26-86
E	AT B-2 & B-3 ADDED 8"X3" FLUED FITTING AT A-5 & A-6 ADDED (W) SYMBOL. AT A-7 ADDED VALVE NO. 1A & 1B. AT A-8 & A-9 ADDED TRIPLE VALVE NO. 1A & 1B. AT A-11 ADDED SYMBOL & LINE NO. 1A & 1B. AT B-1 ADDED SYMBOL & LINE NO. 1A & 1B. AT C-12 ADDED FLOW NOZZLE IN LEGEND. DR. WAL. CK. RWL 1-7-71 2ND. LEV. REV.
F	AT A-5 ADDED INSTR. TR-4775 & NFC-476. AT A-7 DELETED PA-4254. AT A-4 & C-4 DELETED ES-46119 & ES-46120. AT B-8 ADDED TR-4256. AT B-9 ADDED 3/4" FLOW VALVES F7-1, F7-2, F7-3, F7-4, F7-5. AT A-10 ADDED TR-4258. AT C-4 ADDED ES-46121 & ES-46122. AT A-5 & B-5 ADDED INST. NO. 46548 & 4256202. AT A-6 & B-6 ADDED INST. NO. 4256201 & 46549. AT A-7 ADDED INST. NO. 46547. AT B-11 & B-12 ADDED INST. NO. 4256203 & 46548. AT C-4 ADDED ES-46123 & ES-46124. AT C-5 & C-6 ADDED F20-8, F20-9, F20-10. AT C-7 & C-8 ADDED F20-4. DR. WAL. CK. RE. 3-12-71 2ND. LEV. REV. FILMED 5-5-71
G	AT B-2 & B-3 DELETED VALVES F26-1 & F26-2 RESPECTIVELY. AT B-4 & D-4 ADDED INSTR. T-2205 & T-2204 RESPECTIVELY. AT G-5 RELOCATED CV-3136 & CV-3135. DR. E.E. CK. RWL 3-26-71 2ND. LEV. REV. FILMED 7/21/71
H	AT A-5 DELETED INSTR. NO. 4501201, NO. 46550. AT C-7 DELETED NO. 4501201 NO. 46548. AT F-7 ADDED INSTR. NO. ES-46123 & ES-46122. IN LEGEND ADDED NOTE FOR LOCKED OPEN VAS. DR. WAL. CK. RE. 9-1-71 2ND. LEV. REV. FILMED 9-9-71
J	AT C-11 ADDED NON-SV & SV ZONE SYMBOL & INDICATED SAMS (N) SOD VSS DWG. DR. G.C. RE. 12-20-71 2ND. LEV. REV. FILMED 7-21-72
K	AT B-4 & C-4 REVISED TYPE LOCATION. AT C-5 INSTR. NO. 46547 DELETED DR. WAL. CK. RE. 7-21-72 2ND. LEV. REV. FILMED 1-22-73

237127A-M205

DESIGN SECTION APPROVALS

SECTION	INITIALS	DATE
ELECTRICAL	JSW	12/10/87
ELEC. CONTROL	—	—
LICENSING	—	—
MECHANICAL	—	—
INSTRUMENT	ML	12-16-87
STRU. FUD. & STRU.	EP	12-30-87
STRU. ANAL. & DEP.	—	—
NUCLEAR	GB	1-6-88
HYDRAULIC	—	—
STRUCTURAL	—	—
SUPERVISOR	KJ	12-30-87

WISCONSIN — LAWRENCE E. NEWHART, JR. E-11224 GLEN ELLYN, ILLINOIS — PROFESSIONAL ENGINEER

FUNCTIONAL DESCRIPTION DIAGRAM 237127A-M724

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

FLOW DIAGRAM
FEEDWATER SYSTEM

Designed by Pioneer Service & Engineering Co. Chicago

DRAWN	DESIGNED	AED
JL 10/5/67	—	
SCALE	CHECKED	
NONE	C.P. DOERR 6-27-67	
APPROVED	PROJECT & DWG. NO. —	SHT. E. OF
	237127A-M205	AF

237127A-M205

APERTURE CARD

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