



- NOTES**
1. DRAINS TO BE PROVIDED AT LOW POINTS, VENTS AT HIGH POINTS IN SYSTEM.
 2. EQUIPMENT CONSTRUCTED TO ASME SECTION III CLASS 3 INCLUDES INTERCOOLERS, LOW COOLERS, LO COOLERS AND INTERCOOLERS. SEE M-152 FOR FURTHER INFORMATION ON SAFETY CLASSIFICATION AND INSTRUMENTATION. HIGH PRESSURE SAFETY-RELATED INSTRUMENTATION IS CLASS 3 SAFETY-RELATED INSTRUMENTATION. COOLERS AND PUMP COOLERS ARE NOT SAFETY-RELATED INSTRUMENTATION.
 3. FIELD PIPING TO BE CLEANED PER 30-84-7.
 4. SERVICE WATER VALVES ARE AUTOMATICALLY ACTUATED BY SIGNAL FROM ENGINE CONTROL PANEL.
 5. REF. C-8 STD SE-123 FOR RECOMMENDED QUALITY OF COOLANT.

DCR-88-060

HEAT COOL	HEAT COOL
DRY WELL VALVE	DRY WELL VALVE
HEATER	HEATER
HEAT EXCHANGER (SHELL & TUBE)	HEAT EXCHANGER (SHELL & TUBE)
NOZZLE OR SHUTTER VALVE	NOZZLE OR SHUTTER VALVE
WATER VALVE	WATER VALVE
VALVE	VALVE
FLOW METER	FLOW METER
FLOW INDICATOR	FLOW INDICATOR
RELEASE PROTECTION	RELEASE PROTECTION
FILTER	FILTER
ELECTRIC MOTOR	ELECTRIC MOTOR
CHECK VALVE	CHECK VALVE
VENT	VENT
TEMP INDICATOR	TEMP INDICATOR
SINGLE ACTION OPER VALVE	SINGLE ACTION OPER VALVE
RESISTANCE TEMP DETECT	RESISTANCE TEMP DETECT
SEPARATOR	SEPARATOR
ROTARY PUMP	ROTARY PUMP
DEPRESS. VALVE	DEPRESS. VALVE
ORIFICE	ORIFICE
NEEDLE VALVE	NEEDLE VALVE

S.W. VALVES AT MAX - 15°F DP MAX - 8 PSI
SEE M-43-3 & M-126-1 FOR S.W. VALVES

SERVICE WATER FLOW REQUIRED - 1650 GPM @ 125 PSI MAX PRESSURE AND 100°F MAX TEMP.

ORIGINAL

ANSTEC APERTURE CARD

REF COOPER BESSEMER (F-2712) DWG. KSV-47-20

NUCLEAR SAFETY RELATED ITEMS ARE SHOWN ON THIS DRAWING (FOR SAFETY CLASSIFICATION SEE PIPING EQUIPMENT, VALVE OR INSTRUMENT LISTS.)

DRAWING RELEASE RECORD				DRAWING RELEASE RECORD					
REV	DATE	BY	APPROVED	PURPOSE	REV	DATE	BY	APPROVED	PURPOSE
A	10/20/67	F-2742 FOR INFO (DRN-PLD-1968)					
B	12/22/67	F-2742 FOR RECORD (DRN-P-126-2324)					
C	1/8/68	F-2742 FOR RECORD (DCR-88-060)					

DIAGRAM OF COOLING WATER
BYRON STATION UNITS 1&2
COMMONWEALTH EDISON CO.
CHICAGO ILLINOIS

SCALE: NONE
PROJECT NUMBER: 4391-00
DRAWING NO: M-152
SHEET 10 OF ...

CARGENT & LUNNEY
CHICAGO

MC

PDR RIDS

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