CRITICAL HEAT EXCHANGER SYSTEM

DESIGN INTENT:

1. THE SYSTEM SHALL OPERATE CONTINUOUSLY.
2. THE MANUALLY VALVE IN THE COMMON PUMP CROSS-OVER HEADER SHALL BE CLOSED.
3. ISOLATION VALVES OPEN.
4. THE LEAVING WATER TEMPERATURE AT THE LAG HX TRANSMITTER IS NOT WITHIN ±10°F OF SETPOINT.
5. THE HX-1, HX-2, HX-3, HX-4, AND HX-5 ARE IN SERVICE.
6. UPON CONTINUED INCREASE IN LOAD, MODULATE OPEN THE NEXT LARGER CONTROL VALVE.
7. UPON AN INCREASE IN LOAD, FIRST MODULATE OPEN THE SMALLEST CONTROL VALVE.
8. IF THE SETPOINT VARIES MORE THAN ±10°F FROM SETPOINT, AFTER TIME DELAY, DDC ALARM AND SWITCH BACK TO LEAD HEAT EXCHANGER.
9. THE LEAVING WATER TEMPERATURE AT THE LAG HX TRANSMITTER IS NOT WITHIN ±10°F OF SETPOINT.
10. THE DDC SHALL SEQUENTIALLY CONTROL THE STEAM VALVES OF THE LEAD HEAT EXCHANGER.

THE SYSTEM SHALL OPERATE CONTINUOUSLY.

THE MANUAL VALVE IN THE COMMON PUMP CROSS-OVER HEADER SHALL BE CLOSED.

ISOLATION VALVES OPEN.

THE LEAVING WATER TEMPERATURE AT THE LAG HX TRANSMITTER IS NOT WITHIN ±10°F OF SETPOINT.

THE HX-1, HX-2, HX-3, HX-4, AND HX-5 ARE IN SERVICE.

UPON CONTINUED INCREASE IN LOAD, MODULATE OPEN THE NEXT LARGER CONTROL VALVE.

UPON AN INCREASE IN LOAD, FIRST MODULATE OPEN THE SMALLEST CONTROL VALVE.

IF THE SETPOINT VARIES MORE THAN ±10°F FROM SETPOINT, AFTER TIME DELAY, DDC ALARM AND SWITCH BACK TO LEAD HEAT EXCHANGER.

THE LEAVING WATER TEMPERATURE AT THE LAG HX TRANSMITTER IS NOT WITHIN ±10°F OF SETPOINT.

THE DDC SHALL SEQUENTIALLY CONTROL THE STEAM VALVES OF THE LEAD HEAT EXCHANGER.