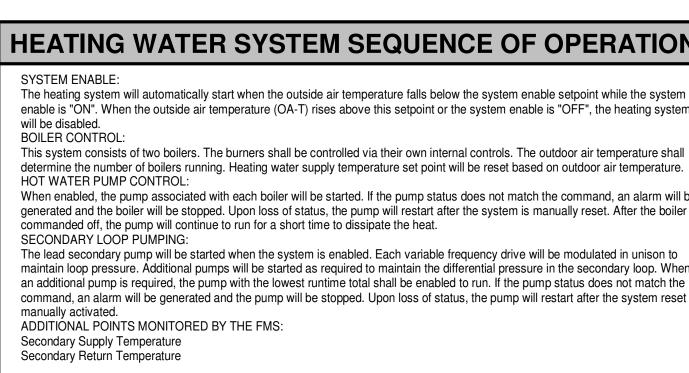
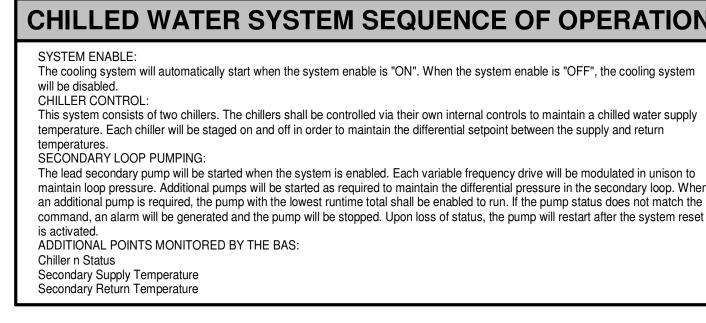


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## HEATING WATER SYSTEM SEQUENCE OF OPERATION

The heating system will automatically start when the outside air temperature falls below the system enable setpoint while the system enable is "ON". When the outside air temperature (OA-T) rises above this setpoint or the system enable is "OFF", the heating system

This system consists of two boilers. The burners shall be controlled via their own internal controls. The outdoor air temperature shall determine the number of boilers running. Heating water supply temperature set point will be reset based on outdoor air temperature.

When enabled, the pump associated with each boiler will be started. If the pump status does not match the command, an alarm will be generated and the boiler will be stopped. Upon loss of status, the pump will restart after the system is manually reset. After the boiler is commanded off, the pump will continue to run for a short time to dissipate the heat.

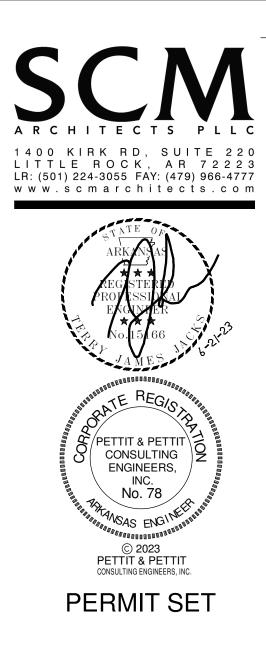
maintain loop pressure. Additional pumps will be started as required to maintain the differential pressure in the secondary loop. When an additional pump is required, the pump with the lowest runtime total shall be enabled to run. If the pump status does not match the command, an alarm will be generated and the pump will be stopped. Upon loss of status, the pump will restart after the system reset is

## CHILLED WATER SYSTEM SEQUENCE OF OPERATION

The cooling system will automatically start when the system enable is "ON". When the system enable is "OFF", the cooling system

temperature. Each chiller will be staged on and off in order to maintain the differential setpoint between the supply and return The lead secondary pump will be started when the system is enabled. Each variable frequency drive will be modulated in unison to

maintain loop pressure. Additional pumps will be started as required to maintain the differential pressure in the secondary loop. When an additional pump is required, the pump with the lowest runtime total shall be enabled to run. If the pump status does not match the command, an alarm will be generated and the pump will be stopped. Upon loss of status, the pump will restart after the system reset



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REVISIONS

**PROJECT NO** 21075 DATE: June 21, 2023

