



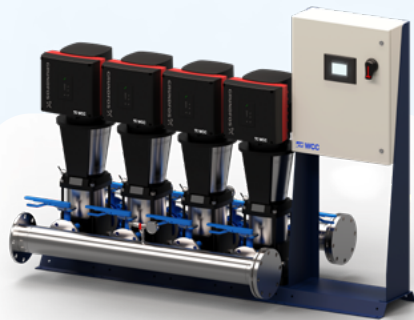
Your **SINGLE SOURCE** provider for emergency backup water systems

Contact WCC for the following:

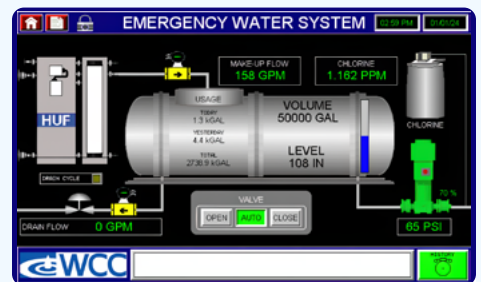
- Tank fill valves and controls
- OSHPD-approved filtration technologies (99.999+% bacteria removal)
- Supplementary chemical disinfection
- Continuous water quality monitoring and data logging
- Large-capacity storage tanks
- Booster pumps for repressurization
- Central control systems (custom PLC's with BAS communication)
- Complete design documentation (spec sheets, DIV22™ specs, Revit™ families, etc.)
- Local representatives and service providers



Filtration and Disinfection



Pressure Booster Pumps



Central PLC Controls

Official Text of TITLE 24, California Code of Regulations, Part 5 California Plumbing Code 615.4 [OSHPD 1] Emergency Water Supply. 615.4.1-2

For new acute care hospital buildings submitted after the effective date of this code, the hospital shall have an on-site water supply sufficient to operate essential hospital utilities and equipment in the acute care hospital building, to support 72 hours of continuing operation in the event of an emergency. Any general acute care hospital in operation after January 1, 2030 shall have an on-site water supply sufficient to operate essential hospital utilities and equipment in the acute care hospital buildings on the campus with an SPC-3, SPC-4, or SPC-5 rating, to support 72 hours of continuing operation in the event of an emergency. See also California Building Code, Part 2, Section 1617A.1.40.

The emergency water storage capacity shall be computed based on an approved Water Conservation/Water Rationing Plan to provide for 72 hours of operation, accepted by the licensing agency. For acute care hospital facilities or buildings required to meet NPC-5, on-site water supply of not less than 150 gallons [based on 50 gallons/day/bed for 72 hours] of potable water per licensed bed shall be provided. In no event shall the campus on-site water storage capacity be less than one tank with at least 5,000 gallons capacity.

The emergency supply shall have fittings to allow for replenishment of the water supply from transportable water sources and a means to dispense water to portable containers in the event that normal water supply becomes unavailable.

Exception: With the approval of the Office and the licensing agency, hook-ups that allow for the use of transportable sources of potable water may be provided in lieu of 72 hours of on-site storage if a minimum onsite water supply of potable and industrial water is provided, sufficient to support 24 hours of operation, without replenishment based on the hospital's approved Water Conservation/Water Rationing plan. In no event shall the on-site water storage capacity be less than one tank with at least 5,000 gallons capacity. This emergency supply tank shall have fittings to allow for replenishment of the water supply from transportable water sources and a means to dispense water to portable containers in the event that normal water supply becomes unavailable. 615.4.2

The emergency supply of water shall be provided at adequate pressure using gravity, pressure tanks, or booster pumps. Pumps used for this purpose shall be provided with electrical power from the on-site emergency power supply system.

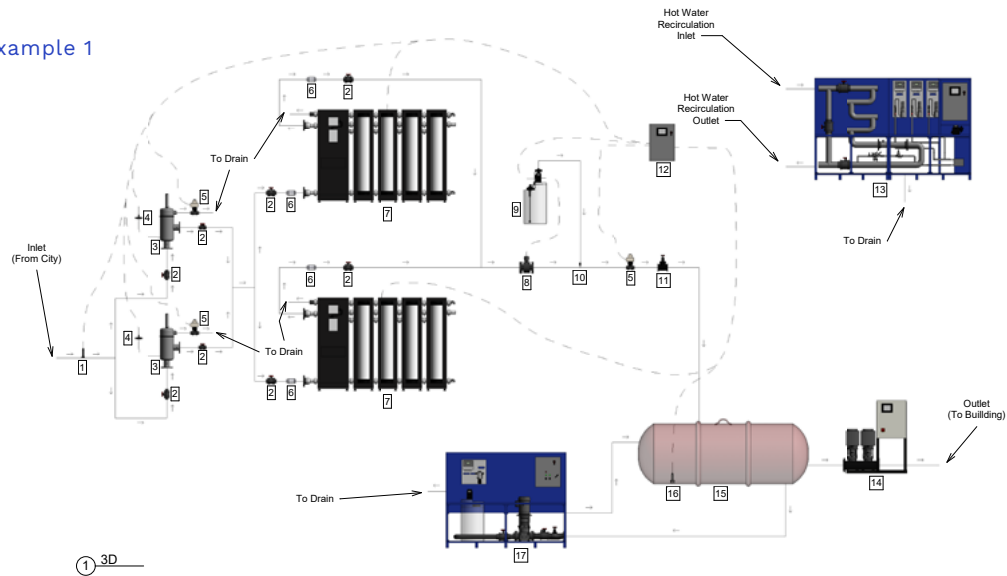
Key takeaways

- New hospitals require a 72 hour emergency water supply (150 gallons per bed)
- Existing hospitals must also comply by January 1, 2030
- Minimum tank size is 5,000 gallons

WCC can provide:

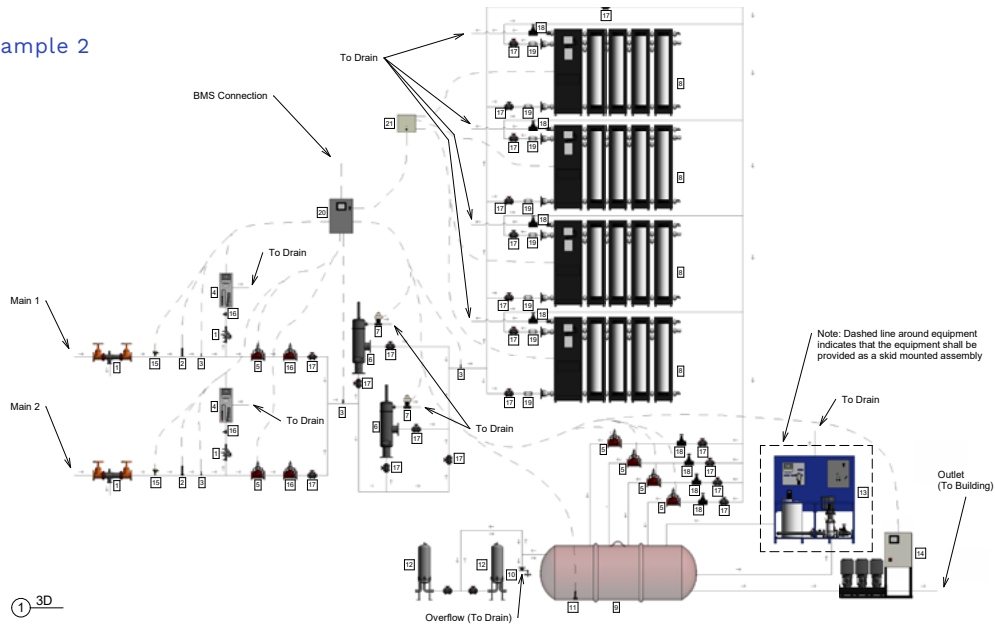
- Engineered design assistance
- Complete equipment packages
- Streamlined controls, with BAS integration, for all components
- Water quality maintenance and monitoring
- Comprehensive construction documents
- Startup, training, and service

System Example 1



TAG	DESCRIPTION	PROVIDED BY	TAG	DESCRIPTION	PROVIDED BY	TAG	DESCRIPTION	PROVIDED BY
1	WATER QUALITY SENSOR	WCC	7	HIGH-CAPACITY ULTRAFILTRATION SYSTEM	WCC	13	HOT WATER CHEMICAL INJECTION SYSTEM	WCC
2	ISOLATION VALVE	OTHERS	8	MAGNETIC FLOW METER	WCC	14	BOOSTER PUMP	OTHERS
3	AUTOMATIC CLEANING FILTER	WCC	9	CHEMICAL INJECTION SYSTEM	WCC	15	STORAGE TANK	OTHERS
4	PRESSURE DIFFERENTIAL SWITCH	WCC	10	CHEMICAL INJECTOR	WCC	16	TANK LEVEL SENSOR	WCC
5	MOTORIZED VALVE	WCC	11	THROTTLING VALVE	WCC	17	RECIRCULATION/CHEMICAL INJECTION SYSTEM	WCC
6	SPRING CHECK VALVE	WCC	12	TALK LEVEL MONITOR CONTROLLER	WCC			

System Example 2



TAG	DESCRIPTION	PROVIDED BY	TAG	DESCRIPTION	PROVIDED BY	TAG	DESCRIPTION	PROVIDED BY
1	BACKFLOW PREVENTER	OTHERS	7	MOTORIZED BALL VALVE	WCC	13	RECIRCULATION/CHEMICAL INJECTION SYSTEM	WCC
2	WATER QUALITY SENSOR	WCC	8	HIGH-CAPACITY ULTRAFILTRATION	WCC	14	BOOSTER PUMP	OTHERS
3	PRESSURE TRANSMITTER	WCC	9	STORAGE TANK	OTHERS	15	FLOW METER	WCC
4	TURBIDITY SENSOR	WCC	10	OVERFLOW VALVE	WCC	16	PRESSURE REDUCING VALVE	OTHERS
5	SOLENOID CONTROL VALVE	WCC	11	TANK LEVEL SENSOR	WCC	17	ISOLATION VALVE	OTHERS
6	AUTOMATIC CLEANING FILTER	WCC	12	0.2 MICRON TANK VENT FILTER	WCC	18	THROTTLING VALVE	WCC
						19	CHECK VALVE	WCC
						20	TANK LEVEL CONTROLLER	WCC
						21	RUF GATEWAY PANEL	WCC

WCC’s team of experienced mechanical and controls engineers is with you **from concept to commissioning**. To get started, contact WCC today or visit www.watercontrolinc.com.