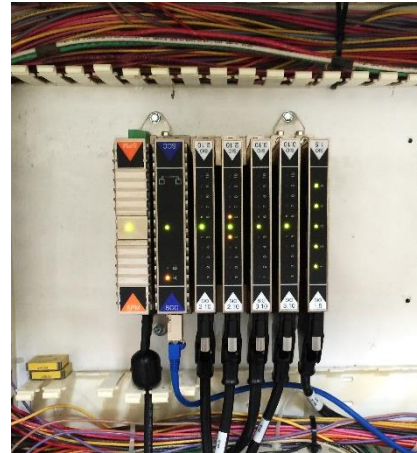


## Wastewater Utility Cyber-Secure Controller Upgrade

City Corporation Water and Sewer, Russellville, Arkansas

Brown Engineers installed, programmed, and integrated this SCADA controller upgrade to replace a failed PLC. Utility staff knew that replacement with an already obsoleted unit was not the best option, so they approved Bedrock Automation's new Open Secure Automation (OSA) controller. The Bedrock line has unique features, including:

- Electromagnetic Backplane: Embedded Security with High Performance, 1ms read/write, pinless electromagnetic structure eliminates plug-in of counterfeit modules
- No Pins to corrode or break
- Power: 80-240VAC or DC, No Fans, No DIP switches
- Communications and Control: OPC-UA, Real-Time, EAL-6+ Military grade Operating System
- Simple: 12 part numbers for the entire control system



"Our utility clients want to control security functions from their tablets and control centers, because their networks get hammered every day by probes and attempted intrusions.

Bedrock controllers give them another layer of protection beyond firewalls and VPNs.

At the hardware level, it powers up and checks for validated hardware. At the operating systems level, it checks that only valid programs are running.

Regular PLCs just can't do that."

Dee Brown, PE  
Brown Engineers, LLC



"Cyber security is a part of our world now and it is *not* going to go away, so we thought we should be proactive and not reactive. If there is a controller on the market that can allow us put away those fears, that would allow us rest easy at night, knowing we are not at risk for an attack, why not take advantage of the technology?"

**We may not be able to do it overnight, but we will eventually get to the point where we have Bedrock controllers throughout our facilities."**

Steve Mallett, Jr., PE  
General Manager, City Corporation