

**CITY OF BELLEVUE, IDAHO  
RESOLUTION NO. 2367**

**A RESOLUTION OF THE CITY OF BELLEVUE, IDAHO, AUTHORIZING THE MAYOR TO ACCEPT ADVANCED CONTROL SYSTEMS' BELLEVUE WATER CAREFREE SCADA PROPOSAL AND EXECUTE ALL AGREEMENTS ASSOCIATED WITH THE PROPOSAL, PURSUANT TO IDAHO CODE §67-2803, FOR THE REPLACEMENT AND/OR UPGRADE OF ALARM MONITORING HARDWARE AND SOFTWARE FOR THE CITY'S WATER SYSTEM**

**WHEREAS**, the City of Bellevue, Idaho ("the City"), operates a water system; and,

**WHEREAS**, the City is currently operating an out-of-support alarm callout software system; and the system is failing to perform critical callouts, resulting in additional costs to the City; and

**WHEREAS**, the City is in need of the replacement and/or upgraded of alarm monitoring Hardware and Software for its water system; and,

**WHEREAS**, Advanced Control Systems (ACS) deploys and manages a Hosted Supervisory Control and Data Control and Data Acquisition ("SCADA") platform, CarefreeSCADA, which is proposed for the City of Bellevue, to be completed in two phases over a 6-month contiguous period.

**NOW THEREFORE**, BE IT RESOLVED by the Common Council of the City of Bellevue, Idaho, as follows:

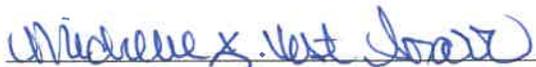
**Section 1.** Approves the Bellevue Water Carefree SCADA proposal from Advanced Control Systems, for the replacement and/or upgrade of alarm monitoring hardware and software for the City's water system in substantially the form presented at the February 26, 2024, regular Council meeting attached hereto as **Exhibit A**.

**Section 2.** The Mayor is authorized to accept Advanced Control Systems (ACS) Proposal 20240213-1505W and execute all contracts associated with ACS in an amount not to exceed \$26,750 for initial onboarding and setup and \$160 monthly service charge for alarm monitoring services.

**PASSED and ADOPTED** by the Common Council and signed by the Mayor of the City of Bellevue, Idaho, this 26<sup>th</sup> day of February 2024.

  
Chris Johnson, Mayor

ATTEST:

  
Michelle Vest Snarr, City Clerk



**ROLL CALL**

	AYE	NAY
Council Member Carreiro	<u>  X  </u>	_____
Council Member Shay	<u>  X  </u>	_____
Council Member Leahy	<u>  X  </u>	_____
Council President Giordani	<u>  X  </u>	_____
Council Member Mahoney	<u>  X  </u>	_____
Council Member Obenauf	<u>  X  </u>	_____

Mayor Chris Johnson  
City of Bellevue, ID

PROPOSAL #: 20240213-1505W  
February 13, 2024

## ~ Bellevue Water Carefree@SCADA Proposal ~

### Situation:

The City of Bellevue is currently running on SCADA systems that are operating on an out-of-support Windows 7 PC with WIN911 as the alarm callout software. The system has been failing to perform critical callouts, which has resulted in multiple system events that cost the City time and money. The City has requested that ACS propose a solution for a system fix or replacement. The primary concern is rapid deployment to at least the most critical sites. The WWTP is not currently operational, so integration into the new solution will be proposed at a later date. Note: Proposal #20240112-1105WW is a required prerequisite for this proposal.

### Scope of Work:

This proposal is for migration to the Hosted SCADA platform, CarefreeSCADA, which ACS deploys and manages. The City sites largely operate on MicroLogix 1400 PLCs, with the one observed exception being the Seaman's Creek site. Strahorn Booster is also expected to be an exception, though this is unverified, but ACS expects to leverage our relationship with Precision Pumping Systems to tie into this site. This proposal assumes the remaining unvisited sites all operate on 1400 PLCs.

ACS will install necessary cellular hardware to all "Smart Sites" (PLC controlled) and a new UL Listed CarefreeSCADA Control Panel at the Seaman's Creek site. The control panel will be sized appropriately with estimated spare backplane space for the planned future addition of a Chlorination system at the site. The Seaman's Creek Measuring Point will be commissioned with a cellular-enabled Radar Level Sensor, transmitting levels 1x per day.

ACS also recommends replacing any existing UPSs at other remote sites, these should be replaced annually to ensure consistent operation. The APC UPS observed at the Chestnut Well is an off-the-shelf unit and can be installed in tandem with trips associated with the project's scope at additional cost.

Given the expressed urgency and critical nature of some of the sites in the City, ACS will commit to rapid deployment of 2-3 sites within 2 calendar months of the executed agreement. These sites will be accessible via the CarefreeSCADA user pages and have independent alarming through that system. This will afford the City's operations staff reliable alarms, as well as give ACS the ability to quickly access and support troubleshooting efforts for those select sites remotely. The remaining sites will be installed in a 6-month timeframe, but ACS will still make every effort to perform site upgrades as technicians become available in that time.

**Carefree@SCADA** is an exclusive service of ACS that offers a relatively low up-front cost accompanied by affordable monthly payments. Additionally, all SCADA system infrastructure and maintenance resides in the "Cloud" at ACS 3rd party data warehouse facilities, removing the responsibility and cost to support it from the City of Bellevue. ACS can also provide shadow monitoring\*, instant function/feature change\*, and instant problem resolution\* due to Cloud hosting. Data collection and control at each incremental site would be performed by an affordable Smart RTU\* provided by ACS that would communicate with ACS Cloud-hosted servers via secure **Carefree@Comms** cellular communications. ACS will pre-verify that all Bellevue system sites have good cellular coverage. Alarms can be sent via email or text to a smartphone and by text to a simple flip phone\*. CarefreeSCADA offers several other benefits not found in Traditional (Client Hosted and Managed) SCADA systems, including but not limited to:

- **Obsolescence Proof Software**
  - Traditional system lifespan is limited to the PC Operating Software support window. These days, Windows OS versions are only supported for 3-4 years. Once the OS goes out of support, security updates cease and increase the risk of security breaches. CarefreeSCADA is always up to date, with security updates installed weekly without any additional costs to the end user.

- Lesser equipment requirements. Instead of a \$3-7k Server PC replacement every 5 years, CarefreeSCADA can run on any off-the-shelf PC or tablet with a web browser at \$200-400.
- Software bugs and issues are covered in your subscription. You will never be billed for issues traced to the SCADA software, and these types of issues are often found and fixed before our customers even see them.
- Feature enhancements are charged for but are implemented remotely without any added travel costs or time to remote into your specific server. ACS has a Support Ticket system where these kinds of requests can be submitted and tracked.
- Cellular telemetry removes typical line-of-site radio issues such as growing vegetation, new construction, or interference with your licensed radio band. Cellular telemetry also enables ACS to quickly access local control systems and troubleshoot via a secure VPN Connection.
- Standard Display Screens and Control Panel Designs cut down on future growth costs, opening the client up to significant cost savings when new remote stations are added.
- Overall lower Cost of Ownership. CarefreeSCADA's cost of ownership over a 10-year span is \$108,640, including the initial migration fees. Maintaining a traditional system like this over the same time frame, ACS consistently sees the cost of ownership as 30% higher or more. Each subsequent year nets even more savings as your cost of ownership each year is equal to your monthly subscription

\* Shadow monitoring, instant function/feature change, and instant problem resolution are outside the Carefree service and may incur standard labor rates

\* Operators can only acknowledge Carefree SCADA alarms via a conventional computer, smartphone or tablet. Flip phones support alarm acknowledgment but do not support monitoring or remote control.

\* Client is responsible for Indoor wall or outdoor pedestal with I/O and power already wired and piped to the desired location. This is a prerequisite for a standard ACS Carefree installation. ACS can provide this service for an additional cost at a standard rate for time and materials. See ACS standard terms and conditions for more information.

### Professional SCADA Services, Schedule, and Participants

We propose that Phases I & II be completed over a 6-month contiguous period as follows in Figure 1:

\* Actual duration of project dependent on ACS workload during execution

**Figure 1: Proposed Schedule**

Phase	Activity	Scope of Work	Calendar time
I	Programming Factory Acceptance Testing (FAT)	<ul style="list-style-type: none"> <li>• Configuration of hosted SCADA server and SQL data historian</li> <li>• Design and programming of Web View display/interface</li> <li>• FAT (simulated with ACS hardware remotely witnessed by client)</li> </ul>	6 - 8 weeks
II	Commission, Operational Readiness Testing (ORT)	<ul style="list-style-type: none"> <li>• Work with Client's installer to Integrate station controllers with ACS web hosting SCADA server</li> <li>• Perform ORT</li> </ul>	4 Months
Total time to complete from start finish			6 Months

### Carefree© SCADA

**Figure 2: Component Pricing** Note: Core Service Items are in **Bold** in this table. Core Services are prerequisites.

Exhibit	Component	Description	Recurring Monthly Rate	One Time Migration Fee	ACS Installation Fee
A	1 <sup>st</sup> System	"Core" station (if RTU required) - Seaman's Creek Station - "Simple Site" full CarefreeSCADA RTU w/Upsized panel for future planned expansion of chlorination system,	\$35.00	\$11,400.00	\$1,550.00
B	2 <sup>nd</sup> System	Additional station beyond the initial "Core" station - Seamen's Creek Measuring Point - Vegapuls Air 41 Battery Powered Cellular Radar Level Sensor	\$20.00	\$3,200.00	\$775.00



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C	3 <sup>rd</sup> System	Additional station beyond the initial "Core" station: Chestnut Well - "Smart Site" Cellular Radio and ancillary hardware added to existing Micrologix 1400 PLC.	\$35.00	\$2,500.00	\$775.00
D	4 <sup>th</sup> System	Additional stations beyond the initial "Core" station: Booster Station - "Smart Site" Cellular Radio and ancillary hardware added to existing Micrologix 1400 PLC.	\$35.00	\$2,500.00	\$775.00
E	5 <sup>th</sup> System	Additional station beyond the initial "Core" station: Reservoir/Tank Station - "Smart Site" Cellular Radio and ancillary hardware added to existing Micrologix 1400 PLC.	\$35.00	\$2,500.00	\$775.00
<b>Subtotals</b>			<b>\$160.00/ mo</b>	<b>\$22,100.00</b>	<b>\$4,650.00</b>

\* Control contingent on availability of pre-existing control I/O and instrumentation

**Monthly Recurring Fee: \$160.00\***

**Total One-Time Fixed Migration Fee: \$26,750.00\***

\* 1<sup>st</sup> monthly fee invoiced the 20<sup>th</sup> of the month after Factory Acceptance Testing is completed, or incrementally as sites become available if applicable

\* 4 hours training via Web Session is included

\* This proposal assumes previous or in tandem execution of proposal #20240112-1105WW

ACS will provide the services listed above in accordance with our link below to ACS company Terms and Conditions.  
 This Proposal will expire in 15 days. To re-quote, please contact our office at 208.362.5858.

**Acceptance of Service** – Please sign where noted below and return a copy to our office. Your signature will serve as authorization to proceed and an acceptance of our Terms and Conditions.

**February 26, 2024**

Signature: •	Date: •
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Name: Printed or Typed •	Your PO Number or Work Order Number: •
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**Chris Johnson, Mayor**

**2367**

Advanced Control Systems, LLC  
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 Meridian, ID 83642

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 Email: [sales@advancedcontrol.com](mailto:sales@advancedcontrol.com)



ACS Terms and Conditions can be found at [www.advancedcontrol.com/terms](http://www.advancedcontrol.com/terms)

Attest: *Michelle K. Vest (Mayor), City Clerk*