

6a.



City of West Allis Matter Summary

7525 W. Greenfield Ave.
West Allis, WI 53214

File Number	Title	Status
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R-2009-0088 Resolution In Committee

Resolution authorizing the Director of Public Works to enter into an agreement with Kamp/Synergy LLC to upgrade the Water Utility's SCADA control system at a cost of \$30,600.

Introduced: 3/17/2009

Controlling Body: Public Works Committee

Sponsor(s): Public Works Committee *+Adm+ Finance Committee*

COMMITTEE RECOMMENDATION *adopted*

ACTION DATE:
MAR 17 2009

MOVER	SECONDER	
<i>✓ - PW</i>	_____	Barczak
<i>✓ A+F</i>	_____	Czaplewski
		Kopplin
		Lajsic
		Narlock
		Reinke
		Roadt
	<i>✓ PW</i>	Sengstock
	<i>✓ A+F</i>	Vitale
		Weigel

PW	AYE	A+F	NO	PRESENT	EXCUSED
<i>✓</i>					
<i>✓</i>					
		<i>X</i>			
		<i>X</i>			
		<i>X</i>			
		<i>X</i>			
<i>✓</i>					
<i>✓</i>					
		<i>X</i>			
<i>✓</i>					

TOTAL *5/5*

SIGNATURE OF COMMITTEE MEMBER

Kurt Kopplin _____
Chair Vice-Chair Member

Henry J. Barczak _____

COMMON COUNCIL ACTION

ADOPT

ACTION DATE:
MAR 17 2009

MOVER	SECONDER	
_____		Barczak
<i>✓</i>		Czaplewski
		Kopplin
		Lajsic
	_____	Narlock
		Reinke
		Roadt
		Sengstock
	<i>✓</i>	Vitale
		Weigel

AYE	NO	PRESENT	EXCUSED
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			
<i>✓</i>			

TOTAL *10*



City of West Allis

7525 W. Greenfield Ave.
West Allis, WI 53214

Resolution

File Number: R-2009-0088

Final Action:

Sponsor(s): Public Works Committee

MAR 17 2009

Resolution authorizing the Director of Public Works to enter into an agreement with Kamp/Synergy LLC to upgrade the Water Utility's SCADA control system at a cost of \$30,600.

WHEREAS, the Water Utility's water reservoir control system is over fifteen years old; and,

WHEREAS, the control system needs to be upgraded or replaced; and,

WHEREAS, the most economical and efficient approach to this need would be the upgrade of the existing system; and,

WHEREAS, the existing system manufactured and installed by Kamp/Synergy has served the Utility well and can be upgraded at a cost of \$30,600; and,

WHEREAS, the cost of replacing the existing system would exceed \$250,000.

NOW, THEREFORE BE IT RESOLVED, that the Director of Public Works is hereby authorized to enter into an agreement with Kamp/Synergy LLC as set forth in their proposal dated March 11, 2009 and attached hereto; and,

BE IT FURTHER RESOLVED, that the costs of all such upgrades and improvements be funded by budgeted Water Utility funds.

h:\my documents\res-ord\scada.res

ADOPTED

MAR 17 2009

Paul M. Ziehler, City Admin. Officer, Clerk/Treas.

APPROVED

3/24/09

Dan Devine, Mayor

Kamp | Synergy

9434 N. 107th Street
Milwaukee, WI 53224
Phone: 414-354-6700
Fax: 414-354-6701

Fax

To: Dan Schewetke**From:** Bill Treloar

City of West Allis

Fax: 414-302-8836**Date:** 3/11/09**Phone:****Pages:** 2**Re:** SCADA System Upgrade**CC:**

Urgent **For Review** **Please Comment** **Please Reply** **Please Recycle**

•Comments:

Hi Dan-

Kamp Synergy would like to offer this proposal to make improvements to your Water SCADA System:

1. Provide unlicensed spread spectrum radio communications to replace the existing telephone modems,
2. Provide (2) new PLC panels to monitor the (2) Milwaukee metering sites,
3. Provide a new SCADA computer and upgraded SCADA software.

The total cost for all the work would be \$30,600.00. Of this cost, \$25,300.00 is for the radio system and new meter sites and \$5,300.00 is for the computer and software upgrade.

As an option, we would also like to offer a software alarm dialer (Wonderware SCADAAlarm) that will provide you with a unique voice message for each alarm. It can also be set up to give you a voice indication of the water levels (tower, reservoir) over the phone. I can provide more information on this if you are interested. The

cost to provide this and record voice messages would be an added cost of \$3,462.00.

Detailed Description of Work

Provide Radio System:

- Provide unlicensed 902-928MHZ radios, MDS Transnet 900, with antenna and surge protection for the 96th St. Pump Station, 84th St. Pump Station, 116th St. Tower, (2) Milwaukee Meter Sites, and a radio repeater located at the 84th St. tower,
- There will be an omni-directional antenna mounted on top of the 84th St. tower with 7/8" heliax cable running down to a small panel in the base of the tower. This panel will consist of:
 - Cabinet-Nema 4/12
 - Freewave FGR2 radio
 - 500VA UPS power backup
 - 24VDC-2A power supply
 - 120V and coax surge protection and grounding
 - Condensation heater
- Each remote site, including the 96th St. Pump Station, will have a radio, yagi (directional) antenna, and surge arrestor.
- Includes a site radio survey to measure signal strength of each path
- Communications for the PLCs will be changed to 9600 baud, RTU mode.
- The Modicon Bridgemux and Modicon 984-145 PLC will be removed at the 96th St. Pump Station and replaced with a Modicon 984-E265 PLC, which will have (2) serial ports and can conduct all the communications polling.

Provide new PLC Panels for the (2) Milwaukee Meter sites

- Provide a Nema 3R cabinet with condensation heater and thermostat
- Allen-Bradley Micrologix 1100 PLC connected to the (2) meter pulses
- Power Fail relay
- Freewave FGR2 radio, yagi antenna mounted on a 10' pole
- 500VA UPS power backup

Upgrade SCADA Computer and Software

- Provide a new Dell Optiplex 755 computer with 19" LCD monitor, Microsoft XP, Microsoft Office Basic
- Upgrade one Wonderware 500 tag license (serial number 488409). The second existing license would not be used anymore.
- Provide a new license for PC-Anywhere remote access software

Please call me if there are any questions or you have other thoughts on this.