

ORANGE COUNTY
BOARD OF COMMISSIONERS

ACTION AGENDA ITEM ABSTRACT
Meeting Date: January 22, 2009

Action Agenda
Item No. 4-m

SUBJECT: Audio/Video Equipment and Installation for Solid Waste Operations Center

DEPARTMENT: Purchasing and Solid Waste
Management

PUBLIC HEARING: (Y/N)

No

ATTACHMENT(S):

Proposal

INFORMATION CONTACT:

Pam Jones, 245-2650
Gayle Wilson, 968-2885

PURPOSE: To authorize the acquisition and installation of audio/video equipment in the training/meeting room of the new Solid Waste Operations Center.

BACKGROUND: The building program for the new Solid Waste Operations Center contemplated the construction of a training/meeting room which would contain audio/video capabilities to support the various meetings that were likely to occur at the Center. To ensure the system would work as anticipated, the County entered into an agreement with CHT of North Carolina, Inc. of Chapel Hill and its sub-consultant, KONTEK Systems, Inc. of Durham, to design the power and communications plan, which has now been constructed. In addition, staff consulted the County's Information Technologies Department (IT) and the Clerk's office for input as the system was being designed. Further communication with IT will be necessary throughout installation for proper data/CATV coordination and to acquire a system computer.

The hardware purchased for this system would be bought through KONTEK Systems, Inc. at General Services Administration (GSA) contract pricing or better. A consolidated purchase which incorporates hardware (GSA pricing or better), installation, programming and training from a single vendor will ensure all pieces are coordinated to function as the system was intended and as the room was designed. These systems are technical and complex and the potential for non-performance or improper functioning is high if not installed properly. The single point of contact method of acquisition and installation will promote greater accountability with clear responsible parties should the system not function as designed and installed.

The specialized nature of the audio/video equipment prompted its purchase outside of the construction contract. This will ensure the installation is consistent with the County's specific needs and will avoid unnecessary contractor markup.

The system is designed to provide a state of the art presentation capability for staff training, department meetings, advisory board meetings, and other uses consistent with the County's Facilities Use Policy. The system will include:

- A wide-screen projection system with motorized screen and ceiling mounted LCD projector.
- A hardwood lectern with microphone, wireless keyboard/mouse, laptop port, and Smart Board annotation system.
- Built in computer and high definition DVD player, plus multiple laptop ports at strategically located floor boxes.
- Sound reinforcement system to amplify lectern microphone, wireless lavalier and hand held microphones, and table microphones for panel discussions and committee meetings.
- Audio teleconference capability.
- Digital audio recording capability for transcription and archiving.
- Touch panel control system, for ease of operation with minimal training.

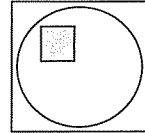
FINANCIAL IMPACT: The cost of the equipment, installation and training is \$47,978. Funds for this system were budgeted and are available in the Solid Waste Management FY 2008/09 budget.

RECOMMENDATION(S): The Manager recommends the Board authorize the acquisition and installation of audio/video equipment in the training/meeting room at the new Solid Waste Operations Center from KONTEK Systems, Inc. at a cost of \$47,978 and authorize the Purchasing Director to issue the necessary paperwork.

* Revised Attachment for
 Item A-m
 1/22/09 BOCC Meeting

PROPOSAL

AV presentation system for the Orange County Solid Waste multi-purpose room. Per design drawings AV.01 through AV.04 and discussions with Chuck Henage and Gayle Wilson. Smart Symposium deleted from original proposal. Pricing conforms to GSA standards, per David Cannell **REVISED 1/16/09.**



kontek

Q	MODEL	DESCRIPTION	PRICE	EXTENDED
VIDEO EQUIPMENT				
2	60-375-02	Extron RGB 468xi 4-gang floor box interface (black)	\$560.00	\$1,120.00
2	70-103-11	Extron AAP plate with XLR3F (black)	\$21.00	\$42.00
1	60-486-61	Extron RGB 190FV interface	\$228.00	\$228.00
1	60-336-21	Extron Crosspoint Ultra 88 HVA matrix switcher	\$3,146.00	\$3,146.00
1	60-658EZ	Extron MAV Plus 88 V matrix switcher	\$1,162.00	\$1,162.00
1	BDP-S300	Sony Blu-Ray HD DVD player	\$210.00	\$210.00
1	RSH-4S	Middle Atlantic rack mount for BDP-S300	\$110.00	\$110.00
			Subtotal:	\$6,018.00
VIDEO PROJECTOR				
1	NP3151W	NEC wide screen LCD projector, 4000 lumens	\$3,750.00	\$3,750.00
1	NP04ZL	NEC long throw power zoom lens, 2.98-4.77:1	\$1,750.00	\$1,750.00
1	RPM-148	Chief mounting bracket for NP3151W	\$199.00	\$199.00
1	LOT	Cathedral ceiling mounting flange, pipe, hardware	\$165.00	\$165.00
			Subtotal:	\$5,864.00
AUDIO EQUIPMENT				
1	3238X001+10	AKG WMS450 wireless lavalier mic system	\$645.00	\$645.00
1	3236X001+10	AKG WMS450 wireless hand held mic system	\$715.00	\$715.00
1	464422	Beyerdynamic SHM 203A gooseneck mic (lectern)	\$249.00	\$249.00
4	457086	Beyerdynamic MTS 11 T table mic	\$379.00	\$1,516.00
1	NEXIA TC	Biamp 10x6 digital audio processing system	\$2,570.00	\$2,570.00
1	CPA 650	Biamp power amplifier, 2x200 W (8 ohms)	\$565.00	\$565.00
1	60-440-01	Extron MDA 3A audio distribution amplifier	\$111.00	\$111.00
1	60-190-01	Extron RSU 129 rack mount shelf	\$76.00	\$76.00
1	PMD-560	Marantz compact flash MP3 recorder	\$446.00	\$446.00
2	8001-3201	Tannoy i7 architectural column loudspeaker (white)	\$569.00	\$1,138.00
2	8001-3211	Tannoy mounting yoke for above	\$95.00	\$190.00
1	15307	Ultimate MC-97 mic stand 1-hand ctrl.(blk.)	\$62.00	\$62.00
			Subtotal:	\$8,283.00
CONTROL SYSTEM				
1	PRO2	Crestron remote control system	\$1,944.00	\$1,944.00
1	C2COM-3	Crestron 3 port RS-232 card	\$371.00	\$371.00
1	TPS-12G-QM-LB	Crestron 12" touch panel (wall mount)	\$4,320.00	\$4,320.00
1	RMK-12L	Crestron rack mount bracket	\$162.00	\$162.00
1	QM-TX	Crestron Quick Media Transmitter	\$594.00	\$594.00
1	ST-RMK	Crestron rack mount adapter	\$81.00	\$81.00
1	PW-2420RU	Crestron regulated 24 VDC, 2A power supply	\$135.00	\$135.00
4	CRESPROG	Crestron software programming	\$1,000.00	\$4,000.00
			Subtotal:	\$11,607.00
HARDWARE & INSTALLATION				
1	23465	Nienkamper "Vox" Presenter's Lectern	\$3,877.58	\$3,877.58
1	FORUM H	Nienkamper "Vox" optional laptop grommet	\$84.88	\$84.88
1	CUSTOM	1RU custom aux input/test point panel	\$85.00	\$85.00

1	CUSTOM	4 gang custom mic input panel (floor box 3)	\$175.00	\$175.00
1	PD11SS	ETA power sequencer, 15 amp	\$315.00	\$315.00
1	SAX-43	Middle Atlantic slide-out equipment rack, 43 RU	\$759.00	\$759.00
1	TS310	Middle Atlantic service stands	\$219.00	\$219.00
1	TRACK50	Middle Atlantic track, 50" length	\$275.00	\$275.00
1	UQFP-4	Middle Atlantic ultra quiet Fan Panel, 100 CFM	\$275.00	\$275.00
1	PD-2415SC-NS	Middle Atlantic 24 outlet power strip, 15 amp	\$123.00	\$123.00
1	PB-5A	Middle Atlantic mounting brackets (pair)	\$12.00	\$12.00
1	RM-KB	Middle Atlantic rack mount keyboard/mouse	\$395.00	\$395.00
1	RSH-4S	Middle Atlantic rack mount for owner's computer	\$110.00	\$110.00
1	RSH-4S	Middle Atlantic rack mount for owner's cable box	\$110.00	\$110.00
1	RF-350	Wireless Computing RF keyboard/remote combo	\$399.00	\$399.00
1	EGR/COORD	On site architectural, engineering & construction coordination	\$1,581.70	\$1,581.70
1	MISC	Misc. hardware/cables/connectors	\$2,260.00	\$2,260.00
1	LABOR	Engineering, installation, documenation, training, warranty	\$5,150.00	\$5,150.00
		Subtotal:		\$16,206.16
GRAND TOTAL:				\$47,978.16

Proposal submitted by: **KONTEK Systems, Inc.**
P.O. Box 3812
Durham, NC 27702
919.680.4321 tel
919.688.6676 fax

WORK BY OWNER: All electrical and conduit work including: power receptacles where needed, empty a/v conduit as required, telephone/data/CATV cabling. Owner to provide Windows computer and cable TV tuner box.

WORK BY KONTEK: All a/v system design including CAD drawings; all necessary equipment and installation to provide a complete system as proposed; freight and delivery; system documentation including detailed operating and maintenance instructions; user training; one year warranty (excluding damage or improper use); additional warranty on certain items as described in manufacturer's warranty terms.

TERMS: Prices valid for 30 days. FOB destination. Sales tax not included - tax will be added to each invoice if required by NC state law. Equipment to be stored at KONTEK prior to installation, with progress invoices to be submitted as equipment is received.