10. FURNITURE, DISPATCH CONSOLE

Category Definition: Specialized dispatch center workstations, CPU enclosures, and auxiliary furniture such as storage units, printer cabinets, files, and tables.

Example Product: Quantity one (1) — 911-Center Dispatch Workstation with partitioned screens.

The following specifications and equipment configuration describes requirements for the EXAMPLE PRODUCT. It is the Bidder's responsibility to fully describe or explain how the product offered meets or exceeds each identified requirement. If more space is needed, Bidders may submit additional pages (up to a maximum equivalent of five single-sided pages – 12 point font). Only one product may be offered to meet or exceed these specifications on a pass/fail basis. (Reference Section 4.15 Specifications, Part I Solicitation Document)

Manufacturer:	Xybix Systems, Inc.
Product Model Name/Number:	ErgoPower X4

Vendors should submit descriptive literature for the product offered confirming its compliance with specifications.

Note: Symbols for <u>less-than</u> (<) or <u>greater-than</u> (>) shall be interpreted to include <u>equal-to</u> the specified value. The symbol for <u>approximate</u> (~) indicates an imprecise or nominal value where variations will be acceptable.

Item #	Description	Describe/explain how Vendor meets or exceeds specifications
1.	**WORKSTATION DESCRIPTION**	
1.1.	Workstation is one position of a 10-position dispatch center.	Understood
1.2.	Workstation display area supports five – 23 inch flat-panel monitors on a single level.	Xybix has many sizes and shapes which can fit more or less monitors then 5 – 23" panels on a single level.
1.3.	Workstation enclosure supports three standard CPU units.	Xybix has multiple ways to store computers along with many sizes to fit the different computer loads in a PSAP.
1.4.	– Workstation input area supports two full-size keyboards and three pointing devices (mouse or trackball)	Xybix keyboard surfaces will fit two full size keyboards and 3 mice with room to spare.
2.	**REQUIREMENT SUMMARY**	

2.1.	The workstation is designed specifically for 24/7 operations in an Emergency Communications Center environment. – Usage is 5-times normal office environment. Office furniture systems will not be considered.	The 24/7 market is our main market and we have been doing it for 18 years.
2.2.	The workstation shall meet ANSI/HFES 100-2007, ANSI/BIFMA X5.5-1998(Desk Products).	Xybix meets all 5 catagories of the ANSI/HFES 100-2007 standard.
2.3.	The workstation shall meet all ADA guidelines and requirements.	Our professional designers understand ADA rules when designing a room and we have engineered our stations to meet ADA rules.
2.4.	The lifecycle of the workstation shall be no less than 10 years, encompassing over 80,000 hours of use.	Understood and we have install well over the 80,000 hours.
3.	**STABILITY - FUNCTIONALITY**	
3.1.	Console furniture is modular in design for ease of reconfiguration and upgrading. Technology and personal storage units should have the ability to be field removed or replaced without deconstruction of the console unit.	This is part of the design.
3.2.	Sit-to-stand legs are bolted into the console undercarriage with a footprint designed to allow maximum stability based on the overall size of the Input Support Surface. Free standing leg and feet systems will not be acceptable.	Meets Requirement
3.3.	There are no obstructions for side-to-side movement by the user within the console footprint. Knee space must be a minimum of 70% of the consoles overall width.	Meets Requirement
3.4.	Horizontal work surfaces are supported by a steel tubular sub-frame for maximum durability.	Meets requirement with a 1" x 1 ½" 14 gauge tube.
3.5.	Must be strong and rigid and able to meet all required standards for furniture construction.	Meets Requirement
4.	**INPUT SUPPORT (KEYBORAD AND MOUSE) SURFACE**	
4.1.	Must provide a level platform to provide (a) be wide enough design to accommodate and	Meets Requirement
4.1.1.	At least 200 square inches of writing surface.	Meets Requirement – We do have many sizes of consoles and some can be smaller

		depending on the needs of the equipment and room size.
4.1.2.	At least two (2) full-size keyboards with numerical keypad.	Meets Requirement
4.1.3.	At least three (3) pointing devices (mouse, trackball, or touchpad).	Meets Requirement
4.2.	Surface mounted, user-configurable, user-accessible voice and data connections must be available and accessible from the front of the console. (PSB, CAT-6, USB)	Meets Requirement – Our DataDock holds up to 8 USB along with two more ports for CAT 6, RJ 11 and others.
4.3	Must lower to 22" from the floor to accommodate the 5th percentile seated female per ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 8.3.2.4.3	Meets Requirement
4.4.	Must raise to 48" above the floor to accommodate the 95th percentile standing male per ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 8.3.2.4.3	Meets Requirement
4.5.	Provide infinite adjustment throughout the entire range, a critical function to meet ergonomic standards and reduce repetitive strain injuries and carpal tunnel syndrome.	Meets Requirement
4.6.	Must place input devices with primary and secondary work zones to meet ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 5.2.4.1	Meets Requirement
4.7.	Must maintain elbow angles between 70 and 135 degrees to meet ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 5.2.1.1	Meets Requirement
4.8.	Electronic work surface adjustment must be independent of the monitor support adjustment. Other adjustment methods will be deemed unacceptable.	Meets Requirement All up and down movement is powered electrically and separately.
4.9.	Adjustment controls to be easily accessible, provide digital readout and have a smooth surface for easy cleaning and sanitizing.	Meets Requirement
4.10.	Must adjust simultaneously with the monitor support in order to retain relative positioning between both surfaces	Meets Requirement Our dual surface stations allows for simultaneous movement of the two surfaces or independent adjustment. For sit to stand movements it works

		when changing from sitting to standing. Allowing quick shifting from sitting to standing work postures.	best to have simultaneous adjustment, for smaller precise adjustments the independent adjustment works better.
	4.11.	Entire surface and all environmental controls shall move with the input surface to maintain the work environment settings.	Meets Requirement
	4.12.	Static load capacity of 1200 lbs. and an equipment load capacity of 500 lbs to accommodate all types and quantities of input devices.	Meets Requirement – 720 pounds lifting and 1440 static
	4.13.	Must provide a safety sensor in order to detect obstacles and prevent damage or injury.	Meets Requirement we use a Piezo electric sensor which is very reliable and sensitive
	4.14.	A minimum safety clearance of 1.25" shall be required between all moving surfaces. ANSI- HFES 100-2007 Human Factors Engineering of Computer Workstations 8.3.1.2	Meets Requirement
	4.15.	All cabling required to operate the consoles features must be completely concealed.	Meets Requirement
	4.16.	Input surface should have lifting columns integrated into the storage cavities with no exposed leg sets.	Meets Requirement
	4.17.	Mechanism must leave an unobstructed knee clearance in the seated operating position in accordance with ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 8.3.2.1	Meets Requirement
	4.18.	All electrical components must be UL listed and CSA certified.	Meets Requirement
	4.19.	Must utilize an integrated brake for stability and prevention of binding. Braking system must lock surface into place when the brake is released.	We do not have a keyboard surface that moves back and forth requiring a lock mechanism.
	4.20.	All moveable components of the console shall be designed and tested to at least 40,000 cycle full range adjustments.	Meets Requirement
5.		**MONITORING VIEWING SUPPORT**	
	5.1.	Provide adjustment of monitors so that the gaze angle to	Meets Requirement Our dual surface allows the monitors to be lowered

	the center of the screen ranges between 15° and 20° below horizontal eye level. ANSI-HFES 100-2007 Human Factors Engineering of Computer Workstations 5.2.4.3.	to the correct gaze angle with the large monitors, and for dispatchers with bi-focal glasses.
5.2.	Must allow adjustment of the line-of-sight (viewing) distance between the eyes and front surface of the viewable display area within the range of 19" and 31" to meet ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 5.2.4.2.	Meets Requirement Our patented RollerVision system is unique in allowing all of the monitors to be adjusted fore and aft together with one simple movement.
5.3.	Design accommodates use of up to five (5) 23" widescreen LCD flat panel monitors on a single tier, and up to (10) 23" widescreen LCD flat panel monitors in a stacked configuration, with independent angle adjustment.	Meets Requirement The Rollervision can easily add a second row of monitors when needed
5.4.	Surface mounted, user-configurable, user-accessible power and video connections must be available and accessible from the front of the console. (VGA, HDMI, DVI)	Meets Requirement
5.5.	Array should allow for concurrent focal depth movement of at least 4 monitors at once and a minimum of 12" of travel. Array depth adjustment must lock into fixed position after adjustment to prevent accidental movement.	Meets Requirement
5.6.	Adjustment controls to be flush mounted into surface or underneath the work surface and have a smooth surface for easy cleaning and sanitizing.	Meets Requirement
5.7.	All electrical components must be UL listed and CSA certified.	Meets Requirement
5.8.	Must be independently adjustable in relation to the Input Support Surface.	Meets Requirement
5.9.	All moveable components of the console shall be designed and tested to at least 40,000 cycle full range adjustments.	Meets Requirement
6.	**SUPPORT ADJUSTMENT**	

6.1.	Adjustment speed shall not be less than 1.25" per second and not greater than 1.5" per second.	Meets Requirement
6.2.	Adjustment controls to be flush mounted into surface or beneath work surface and have a smooth surface for easy cleaning.	Meets Requirement
6.3.	Lifting system must operate quietly. Max sound level of 50db.	Meets Requirement
7.	**EQUIPMENT ENCLOSURES**	
7.1.	Enclosures must be accessible from both the front and the rear.	Meets Requirement – We have several different styles of equipment enclosures. All have front and rear access the equipment.
7.2.	Enclosures must be external from the primary work surface for minimal user disruption.	Meets Requirement
7.3.	Must be available in two heights for small format and tower CPU configurations.	Meets Requirement
7.4.	Must be available in multiple widths to accommodate different CPU configurations.	Meets Requirement
7.5.	Must be available in two depths.	Meets Requirement We have 29" and 33".
7.6.	Enclosures must be stackable to allow additional technology storage or personal storage with taking up additional floor space.	Enclosures must be stackable to allow additional technology storage or personal storage with taking Meets Requirement
7.7.	All equipment enclosures are must utilize an active cooling system to ensure technology performing at optimum temperature.	Meets Requirement
7.8.	Cooling system must feature a thermostatically controlled cooling system, activating at 85 degrees Fahrenheit. This ensures proper cooling without the need to have the cooling fans run continuously.	Meets Requirement
7.9.	Switchable enclosure illumination must be provided.	Meets Requirement Ours is operated off of a motion sensing device so the light turns on and off automatically.
7.10.	Must incorporate an integrated horizontal a horizontal cable management system with a minimum capacity of (80) CAT5 cables.	Meets Requirement

8.	**PARTITION SCREEN**	
8.1.	Frame to be constructed of steel components for maximum strength and durability.	Meets Requirement Our panel system uses 14 gauge powder coated steel.
8.2.	All steel components must be powder coated for durability. Enamel paint not acceptable.	Meets Requirement
8.3.	External Screen components must be available in abrasion resistant fabric covering.	Meets Requirement
8.4.	Internal Screen materials must have a NRC rating of at least .75 and SAA rating of .78 to help reduce ambient noise levels.	Meets Requirement Our panel system uses 14 gauge powder coated steel.
8.5.	Screening system as a whole must be tested in an independent laboratory and have a acoustical NRC rating of .75 or greater.	Meets Requirement
8.6.	Internal components must be consist of environmentally safe, with a minimum of 75% recycled materials	Meets Requirement
8.7.	Screen/partition system must be within the console footprint to maximize floor space.	Meets Requirement
8.8.	All fasteners must be completely concealed.	Meets Requirement
8.9.	All components must be field replaceable.	Meets Requirement
8.10.	Must be available in multiple heights for maximum sound reduction and maximum sight lines. For bidding purposes: vendor shall provide pricing for a	Meets Requirement We have the following height options. ▯'''36" 42" 48" 65" 83"
8.11.	Must be available with a 12" glass upper section to help maintain sight lines.	Meets Requirement
9.	**MATERIALS**	
9.1.	**Wood Part**	
9.1.1.	Wood parts are constructed of 45 lb. density 1-1/8" thick wood core material, pressure bonded with a high-pressure laminate surface on both sides.	Meets Requirement
9.2.	**Surfaces**	

9.2.1.	All monitor and input surfaces are 45 lb. density, 3/4" thick wood core material, pressure bonded with a high-pressure horizontal grade laminate top and sealing horizontal grade backing sheet of laminate on the underside to prevent deflection.	Meets Requirement
9.3.	**Edge Material**	
9.3.1.	All storage units and pedestals must use a 1.5mm thick thermoplastic vinyl extrusion with self-healing properties for maximum durability.	Meets Requirement
9.3.2.	All Input Support Surfaces must use a 3mm thick thermoplastic vinyl extrusion with self- healing properties for maximum durability. Must have a minimum of a 3mm radius on front edge. ANSI/HFES 100-2007 Human Factors Engineering of Computer Workstations 8.3.1.4	Meets Requirement
9.4.	**Laminates**	
9.4.1	High pressure laminate meets ANSI/ASME A 17.1; 1986 requirements for Class "B" laminate and ASTM D523-89, providing a non-glare matte finish.	Meets Requirement
9.4.2.	All monitor and input surfaces are .0625" thickness horizontal grade laminate on the top surface, and on the backing sheet, all to prevent deflection.	Meets Requirement
9.4.3.	Thermally fused laminate meets NEMA LI-1-1998. Low pressure laminate is not acceptable.	Meets Requirement
9.5	**Fabric**	
9.5.1.	Abrasion resistance at a minimum meets ASTM D-3597 MVPTS-198 standards.	Meets Requirement
9.5.2.	Flammability requirements adhere to ASTM E-84 (Tunnel Test) or Class A or 1 and the State of California Technical Bulletin 117 Sec. E (SC-191-53).	Meets Requirement
9.5.3.	Fabric is made with a minimum of 75% recycled materials	Meets Requirement
9.6.	**Powder Coat**	

9.6.1.	Must meet ASTM D3359-09 adhesion standard for durability.	Meets Requirement
9.6.2.	Must meet PCI #8 Solvent Cure Test for durability	Meets Requirement
10.	**ELECTRICAL REQUIREMENTS**	
10.1.	**Power Distribution & Load**	
10.1.1.	Every console will have (2) Power Distribution Units (PDU). Single phase 15A 120V. Each PDU Unit must provide (13) NEMA 5-15R outlets and a NEMA 5-15P input. PDU unit must include a 15 foot cord. PDU must be UL listed and CSA rated.	Meets Requirement This is just one way of getting electrical to the Station. We have other options depending on the needs of the dispatch center and the electrical engineer
10.1.2.	Total power draw for an individual console will not exceed 13 amps. Total draw includes console lifting system and all environmental controls.	Meets Requirement
10.2.	**Wire and Cable Management**	
10.2.1.	Must include two cable access drops with energy chains for vertical cable management from Input Support Surface to equipment enclosures.	Meets Requirement
10.2.2.	Must include energy chains for vertical cable management from Monitor Support to Input Support Surface	Meets Requirement
10.2.3.	Must include energy chains for horizontal cable management between moving surface and fixed surface.	Meets Requirement
10.2.4.	A quick connect user-accessible interface with accommodations for up to 10 configurable ports must be available and must include full kits including ports, jacks and cables for: USB-A, PS/2, RJ45, RJ11/12 and 3.5mm stereo audio connection kits.	Meets Requirement
10.2.5.	The quick connect interface base unit must also provide cable management for the equipment it serves, and the console infrastructure must support cable management from the user's position to the CPUs inside the console.	Meets Requirement

10.2.6.	Must provide a horizontal cable raceway for long cable runs.	Meets Requirement
10.2.7.	Horizontal cable raceway must be easily accessible and allow drop-in cable runs.	Meets Requirement
10.2.8.	Cables routed within a furniture panel system will not be acceptable.	Meets Requirement We have this option, although very seldom cables are run in the panel system
11.	**ENVIRONMENTAL CONTROL SYSTEM**	
11.1.	**Control Panel**	
11.1.1.	Control panel for all environmental settings (task lighting, heating controls and air distribution) must be an integral part of the user interface and be mechanically fastened to the input surface.	Meets Requirement
11.1.2.	Must be within primary reach zone (24") of the user.	Meets Requirement
11.2.	**ADA Compliance**	
11.2.1.	System must offer an optional electronic adjustment control located within reach of a wheelchair to meet ADA requirements.	Meets Requirement
11.3.	**Air Distribution**	
11.3.1.	System shall offer user-adjustable fans for circulating fresh air, with a minimum of 2 speed settings.	Meets Requirement
11.3.2.	Fans shall be incorporated into the furniture design, providing maximum individualized control within the users primary work zone.	Meets Requirement
11.4.	**Lighting Levels**	
11.4.1.	System shall provide indirect ambient lighting.	Meets Requirement
11.4.2.	System shall provide flexible gooseneck style task lighting to allow proper placement of light over work area.	Meets Requirement
11.4.3.	Lighting shall be mechanically fastened to console to prevent removal. Lights should be removable for maintenance.	Meets Requirement

11.4.4.	System shall use integrated 12VDC LED lighting solutions.	Meets Requirement
11.5.	**Personal Heating**	
11.5.1.	System shall provide two ceramic forced heating sources located under the Input Support Surface. 400 watts maximum to keep from working against the building HVAC.	Meets Requirement
11.5.2.	Floor mounted heating solutions will not be acceptable.	Meets Requirement We have the option for a floor mounted system or one that is under the work surface.
11.3.	**Power Requirements**	
11.6.1.	115 VAC, 60Hz	Meets Requirement
11.6.2.	15 ft. power cord with 3-prong plug	Meets Requirement
11.6.3.	0.3 amperes minimum draw, 6.0 amperes maximum draw	Meets Requirement
12.	DOCUMENTATION	
12.1.	One (1) set system documentation, operations and service manuals, printed or electronic copy, for use by supporting technician.	Meets Requirement
13.	WARRANTY	
13.1.	Warranty = Five (5) Years (Vendor shall specify standard warranty and the extended warranty to provide 5 year total warranty coverage.)	Meets Requirement
14.	MAINTENANCE	
14.1.1.	**Summary of Preventative Maintenance**	
14.1.2.	The Vendor will provide Preventative Maintenance to support the lifecycle of the furniture and to maintain the healthy work environment of the dispatch center.	Meets Requirement We have teamed up with Console Cleaning Specialists for this portion of the requirement.
14.1.3	Services will be twice-yearly throughout the warranty period, with the option of an ongoing service agreement to cover the expected ten year lifecycle of the furniture.	Meets Requirement We have teamed up with Console Cleaning Specialists for this portion of the requirement.

14.1.4.	Services will be provided either directly by the vendor or through an authorized subcontractor-dealer network.	Meets Requirement We have teamed up with Console Cleaning Specialists for this portion of the requirement.
14.2.	**Detail of Maintenance**	
14.2.1.	Clean and vacuum cabinetry inside and out	Meets Requirement
14.2.2.	Vacuum fabric panels front and rear	Meets Requirement
14.2.3.	Attempt to remove stains from fabric panels	Meets Requirement
14.2.4.	Inspect and repair edge molding on top and bottom of fabric panels	Meets Requirement
14.2.5.	Vacuum under cavity shelves	Meets Requirement
14.2.6.	Vacuum under console, utilizing specialized tool, for discarded food and particles than can cause allergens and attract pests.	Meets Requirement
14.2.7.	Clean and wipe down all counters in and around the console	Meets Requirement
14.2.8.	Clean and disinfect all high touch areas	Meets Requirement
14.2.9.	Clean and disinfect all peripherals including keyboards, mice, phone, and input surfaces.	Meets Requirement
14.2.10.	Inspect and/or replace post caps	Meets Requirement
14.2.11.	Inspect alignment and fit of work surfaces to side surfaces	Meets Requirement
14.2.12.	Re-level and orient primary surfaces	Meets Requirement
14.2.13.	Inspect all consoles for level, return consoles to level	Meets Requirement
14.2.14.	Align individual positions to room if necessary	Meets Requirement
14.2.15.	Align and inspect doors under consoles and rear access doors	Meets Requirement
14.2.16.	Inspect and/or replace door stops on foundation	Meets Requirement
14.2.17.	We visually inspect all electrical (CPU, radio, USB, Ethernet and monitor) equipment for any anomalies	Meets Requirement

	including physical connections, frayed wires and other defects. Repair if furniture related; document and refer if not.	
14.2.18.	Re-fasten leg and comfort control wires	Meets Requirement
14.2.19.	Replace broken wire management pieces and tie down wiring related to the mechanical lift portion of the console only.	Meets Requirement
14.2.20.	Inspect all filters in the air controls units, replace filters as needed (for an additional cost)	Meets Requirement
14.2.21.	Inspect and repair duct arms	Meets Requirement
14.2.22.	Inspect fans and control units	Meets Requirement
14.2.23.	Tuck and tighten cloth on panels.	Meets Requirement
14.2.24.	Inspect and/or re-hang panels to posts	Meets Requirement
14.2.25.	Tighten screws or bolts on mechanical parts or wire management.	Meets Requirement
14.2.26.	Inspect all console lights and replace light bulbs as needed	Meets Requirement
14.2.27.	Clean and disinfect keyboards, mice and monitors. Document defects and refer as needed.	Meets Requirement
14.3.	**Process and Equipment** — as maintenance and cleaning will take place in an operating dispatch center, the follow are required to minimize disruption.	Meets Requirement
14.3.1.	All maintenance personnel must satisfy the security requirements of the dispatch center.	Meets Requirement
14.3.2.	Cleaning to be completed with fragrance-free, minimal-odor, environmentally safe, bio-degradable products. MSDS Sheets will be available for inspection when requested.	Meets Requirement
14.3.3.	Vacuum cleaning equipment shall utilize HEPA filtration (*99.9% of particles 1-micron or larger*) and operate at less	Meets Requirement

	than 68-dB (A) sound level.	
14.3.4.	SHIPPING REQUIREMENTS – Contiguous U.S., F.O.B. All Destinations Non-contiguous U.S., F.O.B. Port	Meets Requirement Meets Requirement Meets Requirement Meets Requirement.