



RESOLUTION NO. 041712-B

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**A RESOLUTION OF THE GOVERNING BOARD OF EDUCATION OF THE LONG BEACH UNIFIED SCHOOL DISTRICT ADOPTING COMPATIBILITY, UNIFORMITY, AND STANDARDIZATION FOR CLASSROOM AUDIOVISUAL MANAGEMENT SYSTEM; INTRUSION DETECTION SYSTEM; SECONDARY INDICATING CLOCKS AND PUBLIC ADDRESS SYSTEM; TELEPHONE SYSTEM; AND FIRE DETECTION AND ALARM SYSTEM AT THE LONG BEACH UNIFIED SCHOOL DISTRICT**

**WHEREAS**, the Governing Board of the Long Beach Unified School District ("District") intends on expending funds installing, replacing, or upgrading numerous classroom audiovisual management systems; intrusion detection systems; secondary indicating clocks and public address systems; telephone systems; and fire detection and alarm systems (Standardized Equipment and Systems) throughout the District as part of the Maintenance and Repair and Capital Facilities Program throughout the District;

**WHEREAS**, the District, pursuant to Public Contract Code Section 3400, intends to establish uniform, complete and compatible Standardized Equipment and Systems District-wide in order to match existing, planned and/or acceptable field test product installations;

**WHEREAS**, the District has determined that uniform systems District-wide will facilitate the most technologically competitive and feasible education for school children in the District;

**WHEREAS**, the District has determined that uniform systems District-wide will facilitate technical familiarity among faculty and staff while reducing training and increasing efficiency in the District;

**WHEREAS**, the District has determined that uniform systems District-wide will facilitate a safe environment;

**WHEREAS**, the District has determined that uniform systems District-wide will protect the District's limited fiscal resources by providing cost savings by ease of maintenance, operations and familiarity with service;

**WHEREAS**, the District has determined that uniform systems District-wide will reduce the inventory costs associated with maintaining multiple brands of replacement inventory in the District;

**WHEREAS**, the District has determined that uniform systems District-wide will reduce the costs associated with training and certification of staff for multiple brands of systems and equipment in the District;

**WHEREAS**, the District has determined that uniform systems District-wide will increase the serviceability of the systems or equipment while decreasing the repair time;

**WHEREAS**, uniform systems District-wide will reduce the storage space required to carry items of similar function for multiple brands in storage facilities and on maintenance vehicles;

**WHEREAS**, uniform systems District-wide will reduce the inventory costs required to carry items of similar function for multiple brands;

**WHEREAS**, the District has found incompatibility of product substitutions to the proposed Standardized Equipment and Systems to be problematic, the District finds it necessary to establish one complete District-wide Standard in order to avoid incompatibility issues and costs associated with replacement of equipment that fails to perform to the level of the proposed Standardized Equipment and Systems. These failures include equipment that is not supported by the manufacturer and incompatible and useless products that waste District funds associated with addressing incompatibility;

**WHEREAS**, the District and its consultants have undertaken considerable research into the proposed Standardized Equipment and Systems that would properly serve the District's administrative and educational purposes;

**WHEREAS**, the District has invested significant financial and human resources in testing, documenting, training and management systems to support the current install base of Standardized Equipment and Systems;

**WHEREAS**, the District's existing facilities already utilize specific products/brands relating to the Standardized Equipment and Systems. The District's intent is to match those existing systems currently in use to avoid the cost of designing and engineering systems that may not be compatible or backward compatible and can never be made compatible or may be compatible only after expending considerable District resources and funds;

**WHEREAS**, pursuant to Public Contract Code Section 3400(b), the District desires to design current and future projects utilizing certain products/brands to match items in existing projects so as to establish a District-wide, homogenous system of Standardized Equipment and Systems, thus avoiding incompatibility issues, and increased cost benefit of training, and maintenance;

**WHEREAS**, the District has determined that due to the compatibility issues which arise from non-standard equipment and systems only the specified manufacturers may provide products as set forth in these documents;

**WHEREAS**, the District has established a committee comprised of District personnel ("Facility Design Standards Committee") that meet on an on-going/as needed basis to re-evaluate the District's findings and Specifications related to the Standardized Equipment and Systems. Based on the Facility Design Standards Committee's evaluation of other products, manufacturers, equipment, and systems submitted by vendors, contractors, or manufacturers for proposed substitutions, the District may revise its Specifications accordingly and issue updated findings and;

**WHEREAS**, the District, pursuant to Public Contract Code 3400, intends to establish uniform standards for the following equipment and systems for the following reasons:

## CLASSROOM AUDIOVISUAL MANAGEMENT SYSTEM:

1. The Classroom AV System as provided by the Extron Pole and Wall Vault Systems (PVS 305SA A/V Switcher, MediaLink Controller MLC104 IP Plus Voice Lift system Media Source Interfacing). Specification is attached by reference hereto as *Exhibit A*.
  - a. The specific classroom AV system offers the ability to design for installation with wall mounted, ceiling mounted or cart mounted scenarios that allow the District to utilize the product during new construction or modernization.
  - b. The specified classroom AV system has a complete centralized AV switching and control system with stereo amplification that can utilize its voice amplification system as an integrated unit.
  - c. Emergency Instant Alert feature is included with the voice amplification system. This can be used by a teacher to discretely alert administration/security about an emergency in the classroom.
  - d. The classroom AV system uses exclusive auto power save and standby modes for lower energy usage and reduced operating costs.
  - e. The classroom AV system utilizes CAT5e type cable for quick and easy connections and low cost installation.
  - f. Will provide consistent and cost-effective maintenance, operating and repair costs. Technical support is available through the hotline 24 hours a day, 365 days a year.
  - g. Technology Enhances Classrooms (TECs) are standardized control/interface systems and employ a standardized operational protocol. The principles of this recommendation are to establish desirable goals with respect to classroom operational protocol and classroom design and installed technology. The TEC classroom standard includes control systems that have ADA, Section 508 compliant buttons that are discernible without activating the controls or buttons on the control panel, easily reached control panel locations, closed captioning, hearing assistance capability and user friendly operator protocols among the features that are consistent with universal design principles.
  - h. Current availability of spare parts. The manufacturer is located locally and parts can be purchased and installed within a two (2) hour period.
  - i. District personnel are currently trained to maintain and utilize the specified classroom AV system.
  - j. The classroom AV system allows network connectivity for web-based monitoring and problem solving via the network, thus reducing the District response time.
  - k. The specified classroom AV system Warranty extends five (5) years at no charge.
  - l. The classroom AV system can be purchased through E-Rate at a reduced cost to the District for the cabling and head end equipment.

## INTRUSION DETECTION SYSTEM:

1. The Intrusion Detection System as provided by Bosch Security Systems, Inc. D 9412GV3 Control Panel System. Specification is attached hereto as *Exhibit B*.
  - a. The specific intrusion detection system offers the design ability for integration with the existing security system. This backwards compatibility will allow the District the flexibility of replacing the existing system panels that are past end of life, without replacing existing motion detectors or cabling.
  - b. The specified intrusion detection system allows the configuration to assign an identifier to each room or area. This improves the safety functionality of the system, whereby the responding officers will have the ability to locate the area of concern in a single room instead of an entire building.
  - c. This intrusion detection system uses the Two Man Rule, which provides added security by requiring two people present at openings and two unique passcodes on the same keypad to disarm an area. Without the second passcode, the system denies entry.
  - d. The intrusion detection system specifications allow for the user passcodes containing three (3) to six (6) digits. Each user can be assigned one (1) of fourteen (14) custom authority levels in each area. Passcodes can be restricted to operate only during certain times.
  - e. The intrusion detection system will provide consistent and cost-effective maintenance, operating and repair costs. Technical support is available through the Internet 24 hours a day, 365 days a year.
  - f. Current availability of spare parts.
  - g. The intrusion detection system will communicate reports to four (4) route groups. Each group has a programmable primary and back up destination, giving redundancy to the system communications. The system provides flexible communications for central stations with reporting capabilities such as: individual point numbers, opening or closing reports by user and area number, remote programming attempts and diagnostic reports.
  - h. The intrusion detection system control panel provides eight (8) on board points and up to 238 additional off board points. Individual points can be programmed to monitor all types of burglar alarms and supervision devices.
  - i. The intrusion detection system will give the District the flexibility of a commercial wireless platform. The wireless mesh network ensures superior range, reliability, and scalability for school modernization applications. In addition, since there is no need for trenching, running conduit, cabling and re-compacting, the District will stand to gain fiscally.
  - j. The specified intrusion detection system can store up to 1,000 local and transmitted events. The event log includes time, date, event, area, point, and user number. The event log can be viewed from a keypad or information can be retrieved remotely. This saves the District time and money from retrieving multiple events.
  - k. The intrusion detection system specifications allow for remotely scheduled events. The internal clock and calendar start individually scheduled events. The system will perform functions such as arm or disarm, relay control, or

point bypassing. There are 40 scheduled events with up to 25 different functions, day of the week, date of month or holiday. This saves the District the time and effort of dispatching someone to program events on each system/site.

#### SECONDARY INDICATING CLOCKS AND PUBLIC ADDRESS SYSTEM:

1. The Secondary Indicating Clocks and Public Address System as provided by Teradon Industries, Inc. AR1000 Series Raptor V and American Time & Signal Company AllSync Plus. Specification is attached by reference hereto as *Exhibit C*.
  - a. The system is capable of using existing clocks resulting in large monetary savings with modernization retrofit situations.
  - b. District staff is trained on programming and repair of the secondary indicating clock system.
  - c. The system may be programmed remotely allowing easy changes to schedules by site or District staff. This will also reduce vehicle travel to sites, improving work efficiency, and reducing fuel use and vehicle wear and tear.
  - d. Will provide consistent and cost-effective maintenance, operating and repair costs.
  - e. Spare parts are readily available.
  - f. The voice communications and master clock controls have remote modules that eliminate the need for home run cabling, resulting in large monetary savings with modernization retrofit situations and new construction.
  - g. Voice communications and master clock controls will correct wired and wireless clocks, allowing the option to have synchronized locally powered clocks installed without having to run wiring (such as in re-locatable (bungalow) buildings).
  - h. Automatic daylight savings time and leap year correction.
  - i. The voice communications system is modular in design to address the distinctive needs of any location. This flexibility allows the purchase of just what is needed thereby making it easy to meet budget requirements.
  - j. Continued operation during power outages.
  - k. The voice communications and master clock system is built on industry standard computers with Microsoft Windows, thus offering a low cost of ownership.
  - l. Five year warranty included.

#### TELEPHONE SYSTEM:

1. The Telephone System as provided by Avaya Communications Server 1000E and IP Deskphones. Specification is attached by reference hereto as *Exhibit D*.
  - a. System is capable of using existing telephone handsets and wiring, which results in large monetary savings.

- b. District staff is trained and certified by the manufacturer on programming and repair of this system.
- c. The system may be programmed remotely, which reduces vehicle travel to sites while improving work efficiency.
- d. The existing system and new additions will provide consistent and cost-effective maintenance, operating and repair costs.
- e. Spare parts are readily available.
- f. The system will support analog, digital and VoIP handsets.
- g. The system is a highly scalable communication platform with built in reliability and survivability that can be distributed across the Wide Area Network (WAN). The systems may be connected site to site over the District WAN reducing the need for leased lines to connect sites. This will lower monthly operational costs.
- h. Continued operation during power outages.
- i. Supports applications such as unified messaging, centralized management, SIP based multimedia services, web based contact center applications, interactive voice response (IVR), call center, and integrated conference bridge.
- j. Unified messaging works with current District email system (Novell Group Wise), as well as, many other mainstream email solutions, reducing the need to purchase additional software.

#### FIRE DETECTION AND ALARM SYSTEM:

1. The Fire Alarm system, as provided by Honeywell Fire-Lite Alarms (for small systems) and Notifier (for larger systems). Specification is attached by reference hereto as *Exhibit E*.
  - a. District personnel are currently trained to maintain and utilize the specified fire alarm systems.
  - b. Spare parts are readily available.
  - c. The system is easy to use, program, and repair.
  - d. Fire-Lite is a non-proprietary system.
  - e. Notifier is a proprietary system, but the District may obtain parts.
  - f. A majority of the District's sites already utilize Fire-Lite.
  - g. Fire-Lite upgrades are backwards compatible.

**NOW, THEREFORE, THE BOARD DOES HEREBY RESOLVE, DETERMINE, AND ORDER AS FOLLOWS:**

- Section 1. That the above recitals are all true and correct.
- Section 2. That the District's Facility Design Standards Committee shall re-evaluate District Specifications on an ongoing basis and review the products and systems addressed in this Resolution based on issues of compatibility, durability, price, competitiveness, maintenance and other criteria as the Facility Design Standards Committee deems appropriate.
- Section 3. That any vendor or manufacturer may submit requests with appropriate backup documentation and information in the future to be considered as a District Standard. The Facility Design Standards Committee shall evaluate all such requests as established by the Facility Design Standards Committee when it re-evaluates the District's Standards on an ongoing basis.
- Section 4. That the District has established that the Specification sections attached by reference hereto as Exhibits A thru E of this Resolution, and no other Specification sections, are affected by this Resolution in connection with the District's construction projects.
- Section 5. That the District's Facility Design Standards Committee may substitute upgraded standardized products, as listed in this resolution, as determined to be in the best interest of the District.
- Section 6. That the District's Facility Design Standards Committee may substitute an obsolete model with the manufacturer's superseding product, should a product in this Resolution become obsolete.

**CLASSROOM AUDIOVISUAL MANAGEMENT SYSTEM:**

- Section 7. That the District intends on expending considerable funds toward classroom AV systems and is concerned with the following critical issues:
  1. That all classroom AV systems throughout the District are compatible;
  2. That all classroom AV systems are uniform;
  3. That all classroom AV systems may be serviced on a District-wide basis;
  4. That all classroom AV systems are consistent to promote educational technology; and
  5. That all systems and equipment are standardized District-wide to minimize system failures and repairs

#### INTRUSION DETECTION SYSTEM:

Section 8. That the District intends on expending considerable funds toward intrusion detection systems and is concerned with the following critical issues:

1. That all intrusion detection systems throughout the District are compatible;
2. That all intrusion detection systems are uniform;
3. That all intrusion detection systems may be serviced on a District-wide basis;
4. That all intrusion detection systems are consistent to promote school safety; and
5. That all systems and equipment are standardized District-wide to minimize system failures and repairs.

#### SECONDARY INDICATING CLOCKS AND PUBLIC ADDRESS SYSTEM:

Section 9. That the District intends on expending funds toward master clock control systems, secondary indicating clocks and public address systems District-wide and is concerned with the following critical issues:

1. That all master clock and program systems and secondary indicating clocks throughout the District are compatible;
2. That all master clock and program systems and secondary indicating clocks are uniform;
3. That all master clock and program systems and secondary indicating clocks may be serviced on a District-wide basis;
4. That all master clock and program systems, and secondary indicating clocks are consistent to promote safety of students and to protect District property; and
5. That all systems and equipment are standardized District-wide to minimize system failures and repairs.

#### TELEPHONE SYSTEM:

Section 10. That the District intends on expending considerable funds toward telephone systems District-wide and is concerned with the following critical issues:

1. That all telephone systems throughout the District are compatible;
2. That all telephone systems are uniform;
3. That all telephone systems may be serviced on a District-wide basis;



4. That all telephone systems are consistent to promote safety of students and to protect District property; and
5. That all systems and equipment are standardized District-wide to minimize system failures and repairs.

FIRE DETECTION AND ALARM SYSTEM:

Section 11. That the District intends on expending considerable funds toward fire alarm systems District-wide and is concerned with the following critical issues:

1. That all fire detection systems throughout the District are compatible;
2. That all fire detection systems are uniform;
3. That all fire detection systems may be serviced on a District-wide basis;
4. That all fire detection systems are consistent to promote school safety; and
5. That all systems and equipment are standardized District-wide to minimize system failures and repairs.

Section 12. Effective Date. This Resolution shall take effect upon adoption.

**RESOLUTION NO. 041712-B**

**PASSED AND ADOPTED** this 17<sup>th</sup> day of April, 2012 by the following vote:

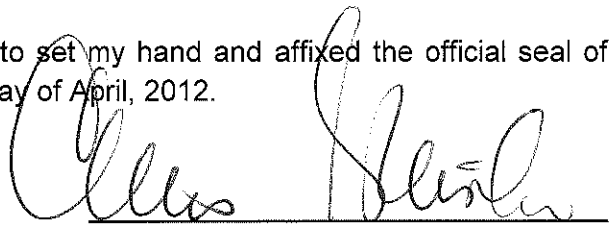
AYES:	<u>5</u>
NOES:	<u>0</u>
ABSENT:	<u>0</u>
ABSTAINED:	<u>0</u>

I, Felton Williams, President of the Long Beach Unified School District Governing Board, do hereby certify that the foregoing is a full, true, and correct copy of the resolution passed and adopted by said Board at a regularly scheduled and conducted meeting held on said date, which resolution is on file in office of said Board.

  
\_\_\_\_\_  
President of the Board of Education  
Long Beach Unified School District

I, Christopher J. Steinhauser, Clerk of the Board of Education of the Long Beach Unified School District, do hereby certify that the foregoing Resolution was introduced and adopted by the Board of Education of the Long Beach Unified School District at a regular meeting thereof held on the 17<sup>th</sup> day of April, 2012, by the following forgoing vote.

**IN WITNESS WHEREOF**, I have hereunto set my hand and affixed the official seal of the Long Beach Unified School District this 17<sup>th</sup> day of April, 2012.

  
\_\_\_\_\_  
Clerk of the Board of Education  
Long Beach Unified School District

**RESOLUTION NO. 041712-B**

**LIST OF EXHIBITS**

- EXHIBIT A Classroom Audio Visual Management System
- EXHIBIT B Intrusion Detection System
- EXHIBIT C Secondary Indicating Clocks and Public Address System
- EXHIBIT D Telephone System
- EXHIBIT E Fire Detection and Alarm System

**RESOLUTION NO. 041712-B**

**EXHIBITS A-E**

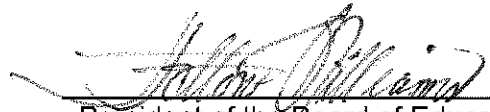
These exhibits are included in the agenda and available under separate cover at the District's Business Office located at 1515 Hughes Way, Long Beach, CA 90810.

**RESOLUTION NO. 041712-B**

**PASSED AND ADOPTED** this 17<sup>th</sup> day of April, 2012 by the following vote:

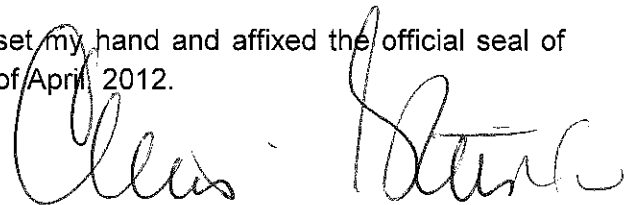
AYES:	<u>5</u>
NOES:	<u>0</u>
ABSENT:	<u>0</u>
ABSTAINED:	<u>0</u>

I, Felton Williams, President of the Long Beach Unified School District Governing Board, do hereby certify that the foregoing is a full, true, and correct copy of the resolution passed and adopted by said Board at a regularly scheduled and conducted meeting held on said date, which resolution is on file in office of said Board.

  
\_\_\_\_\_  
President of the Board of Education  
Long Beach Unified School District

I, Christopher J. Steinhauser, Clerk of the Board of Education of the Long Beach Unified School District, do hereby certify that the foregoing Resolution was introduced and adopted by the Board of Education of the Long Beach Unified School District at a regular meeting thereof held on the 17<sup>th</sup> day of April, 2012, by the following forgoing vote.

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Clerk of the Board of Education  
Long Beach Unified School District

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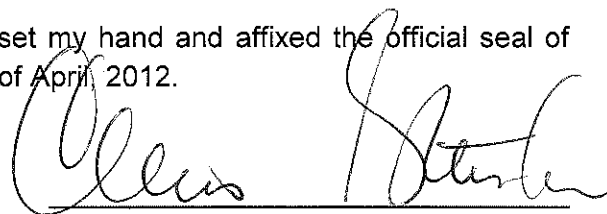
AYES:	<u>5</u>
NOES:	<u>0</u>
ABSENT:	<u>0</u>
ABSTAINED:	<u>0</u>

I, Felton Williams, President of the Long Beach Unified School District Governing Board, do hereby certify that the foregoing is a full, true, and correct copy of the resolution passed and adopted by said Board at a regularly scheduled and conducted meeting held on said date, which resolution is on file in office of said Board.

  
\_\_\_\_\_  
President of the Board of Education  
Long Beach Unified School District

I, Christopher J. Steinhauser, Clerk of the Board of Education of the Long Beach Unified School District, do hereby certify that the foregoing Resolution was introduced and adopted by the Board of Education of the Long Beach Unified School District at a regular meeting thereof held on the 17<sup>th</sup> day of April, 2012, by the following forgoing vote.

**IN WITNESS WHEREOF**, I have hereunto set my hand and affixed the official seal of the Long Beach Unified School District this 17<sup>th</sup> day of April, 2012.

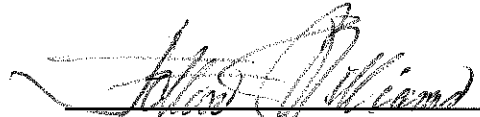
  
\_\_\_\_\_  
Clerk of the Board of Education  
Long Beach Unified School District

**RESOLUTION NO. 041712-B**

**PASSED AND ADOPTED** this 17<sup>th</sup> day of April, 2012 by the following vote:

AYES:	<u>5</u>
NOES:	<u>0</u>
ABSENT:	<u>0</u>
ABSTAINED:	<u>0</u>

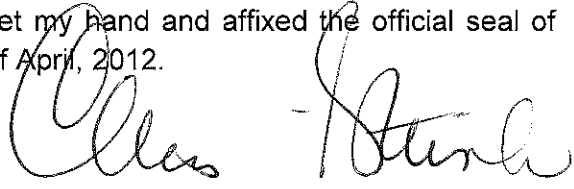
I, Felton Williams, President of the Long Beach Unified School District Governing Board, do hereby certify that the foregoing is a full, true, and correct copy of the resolution passed and adopted by said Board at a regularly scheduled and conducted meeting held on said date, which resolution is on file in office of said Board.



President of the Board of Education  
Long Beach Unified School District

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Clerk of the Board of Education  
Long Beach Unified School District